

FUNAI

SERVICE MANUAL

Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's
- Exploded views
- Parts List

When servicing the deck mechanism, refer to MK14 Deck Mechanism Section.

**Deck Mechanism Part No.:
N25E0FL**

DVD RECORDER & VIDEO CASSETTE RECORDER

DRV-A2621

DRV-A2631



DRV-A2677

DRV-B2737



VHS
PAL

MAIN SECTION

DVD RECORDER & VIDEO CASSETTE RECORDER

DRV-A2621/DRV-A2677/ DRV-A2631/DRV-B2737

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- Specifications
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- Exploded Views
- Parts List

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SPECIFICATIONS

< VCR Section >

Description	Unit	Minimum	Nominal	Maximum	Remark
1. Video					
1-1. Video Output (PB)	Vp-p	0.8	1.0	1.2	SP Mode
1-2. Video Output (R/P)	Vp-p	0.8	1.0	1.2	
1-3. Video S/N Y (R/P)	dB	40	45		SP Mode, W/O Burst
1-4. Video Color S/N AM (R/P)	dB	37	41		SP Mode
1-5. Video Color S/N PM (R/P)	dB	30	36		SP Mode
1-6. Resolution (PB)	Line	230	245		SP Mode
2. Servo					
2-1. Jitter Low	μsec		0.07	0.12	SP Mode
2-2. Wow & Flutter	%		0.3	0.5	SP Mode
3. Normal Audio					
3-1. Output (PB)	dBV	-9	-4	-3	SP Mode
3-2. Output (R/P)	dBV	-9	-4	-1.5	SP Mode
3-3. S/N (R/P)	dB	36	41		SP Mode
3-4. Distortion (R/P)	%		1.0	4.0	SP Mode
3-5. Freq. resp (R/P) at 200Hz	dB	-6	-2		SP Mode
(-20dB ref. 1kHz) at 8kHz	dB	-8	-2		SP Mode
4. Tuner					
4-1. Video output	Vp-p	0.8	1.0	1.2	E-E Mode
4-2. Video S/N	dB	39	44		E-E Mode
4-3. Audio output	dB	-10	-6	-2	E-E Mode
4-4. Audio S/N	dB	40	46		E-E Mode
5. Hi-Fi Audio					
5-1. Output	dBV	-12	-9	-4	SP Mode
5-2. Dynamic Range	dB	70	85		SP Mode
5-3. Freq. resp (6dB B.W)	Hz		20 ~ 20K		SP Mode

Note: Nominal specs represent the design specs. All units should be able to approximate these – some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; In no case should a unit fail to meet limit specs.

< DVD Section >

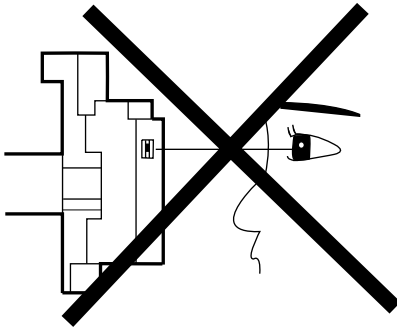
Item	Conditions	Unit	Nominal	Limit
1. VIDEO				
1-1. Video Output	75 Ω load	Vp-p	1.0	
1-2. S-Video Output				
Y (Luminance)	75 Ω load	Vp-p	1.0	
C (Chrominance)	75 Ω load	Vp-p	0.3	
2. AUDIO				
2-1. Output Level		Vrms	2.0	
2-2. Frequency Response				
DVD-VIDEO LPCM	fs = 96 kHz	Hz	20 - 44 k	
	fs = 48 kHz	Hz	20 - 20 k	
Audio CD	fs = 44.1 kHz	Hz	20 - 20 k	
2-3. Signal/Noise Ratio				
DVD-VIDEO LPCM		dB	85	
CD		dB	85	
REC & Playback	Input: 2 Vrms, Rec Speed: SP	dB	85	
2-4. THD+N	1 kHz, 0 dB			
DVD-VIDEO LPCM		%	0.01	
CD		%	0.01	
REC & Playback	Input: 2 Vrms, Rec Speed: SP	%	0.01	
3. TUNER				
3-1. Video Output	75 Ω load	Vp-p	1.0	
3-2. Video S/N		dB	42	
3-3. Audio Output		dBv	-12	
3-4. Audio S/N		dB	46	

Notes:

1. All Items are measured without pre-emphasis unless otherwise specified.
2. Power supply: 220 - 240 V ~ 50 Hz
3. Load imp.: 100 k Ω
4. Room ambient : 5 °C ~ 40 °C

LASER BEAM SAFETY PRECAUTIONS

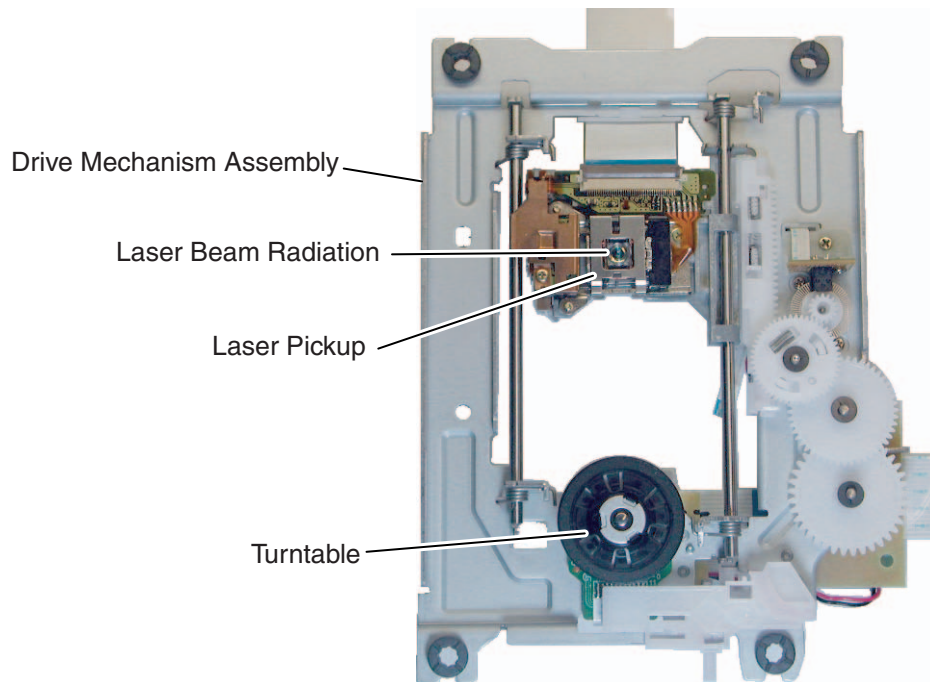
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30 cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

CAUTION: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



CAUTION-CLASS 2M LASER
RADIATION WHEN OPEN
DO NOT STARE INTO THE BEAM
OR VIEW DIRECTLY WITH
OPTICAL INSTRUMENTS



Location: Top of DVD mechanism.

IMPORTANT SAFETY PRECAUTIONS

Product Safety Notice

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- A. Parts identified by the ⚠ symbol are critical for safety. Replace only with part number specified.
- B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- C. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- D. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulators for transistors
- E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- F. Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- G. Check that replaced wires do not contact sharp edges or pointed parts.
- H. When a power cord has been replaced, check that 5 - 6 kg of force in any direction will not loosen it.
- I. Also check areas surrounding repaired locations.
- J. Be careful that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K. Crimp type wire connector
The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.
Replacement procedure
 - 1) Remove the old connector by cutting the wires at a point close to the connector.
Important: Do not re-use a connector. (Discard it.)
 - 2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
 - 3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.
 - 4) Use a crimping tool to crimp the metal sleeve at its center. Be sure to crimp fully to the complete closure of the tool.
- L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1 : Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
220 to 240 V	$\geq 3 \text{ mm}(d)$ $\geq 6 \text{ mm}(d')$

Note: This table is unofficial and for reference only.
Be sure to confirm the precise values.

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method (Power ON) :

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z . See Fig. 2 and the following table.

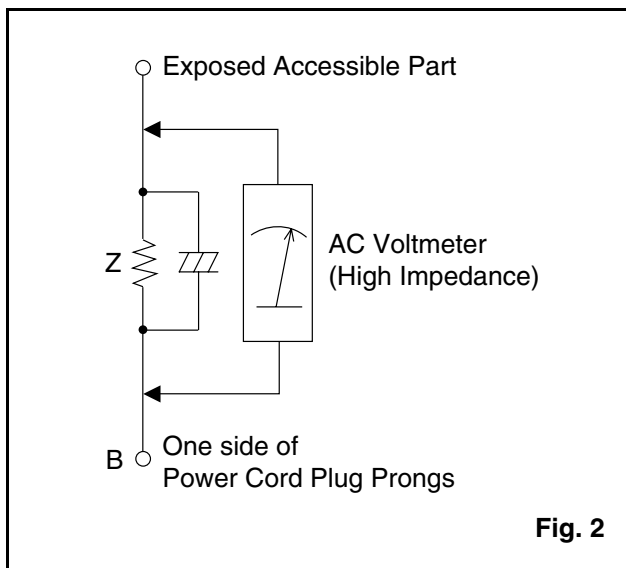
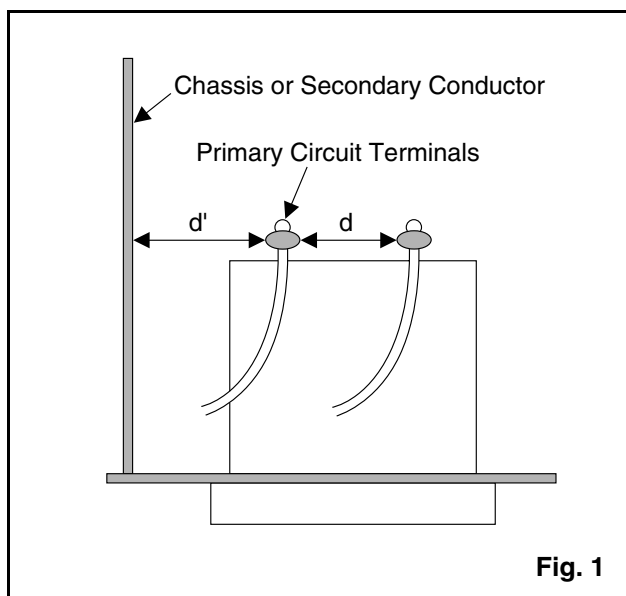


Table 2: Leakage current ratings for selected areas

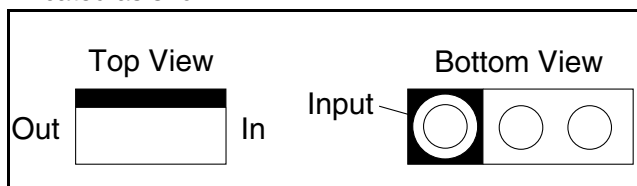
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2k Ω RES. Connected in parallel	$i \leq 0.7 \text{ mA AC Peak}$ $i \leq 2 \text{ mA DC}$	RF or Antenna terminals
	50k Ω RES. Connected in parallel	$i \leq 0.7 \text{ mA AC Peak}$ $i \leq 2 \text{ mA DC}$	A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

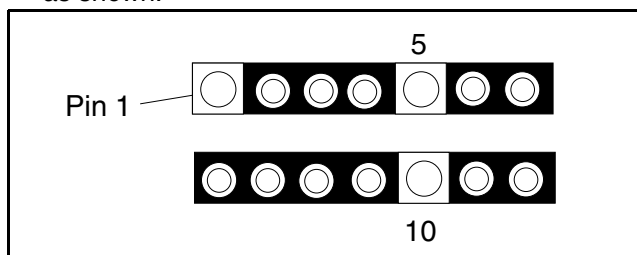
STANDARD NOTES FOR SERVICING

Circuit Board Indications

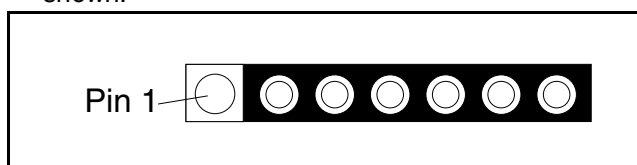
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

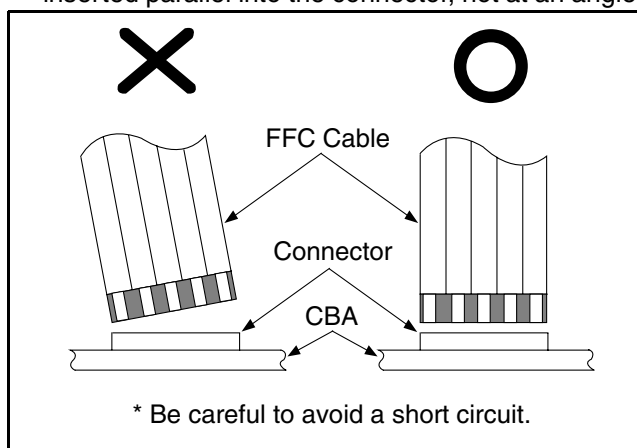


3. The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



Pb (Lead) Free Solder

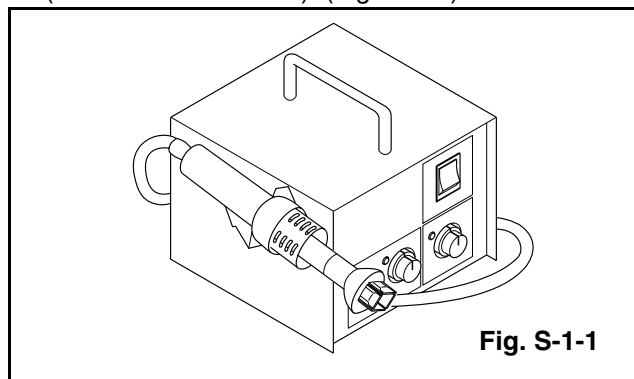
When soldering, be sure to use the Pb free solder.

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

- (1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

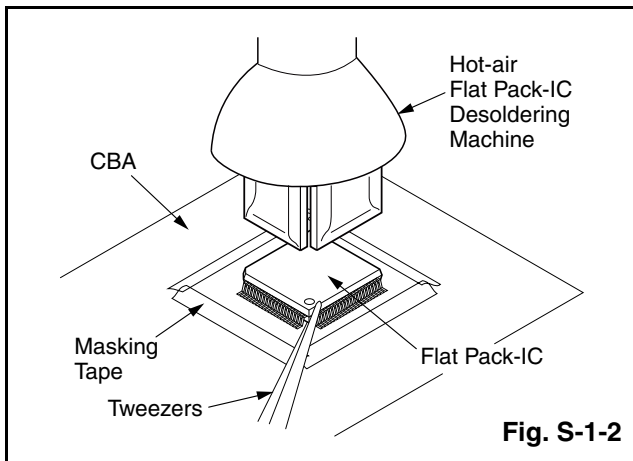


- (2) Remove the flat pack-IC with tweezers while applying the hot air.
- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Caution:

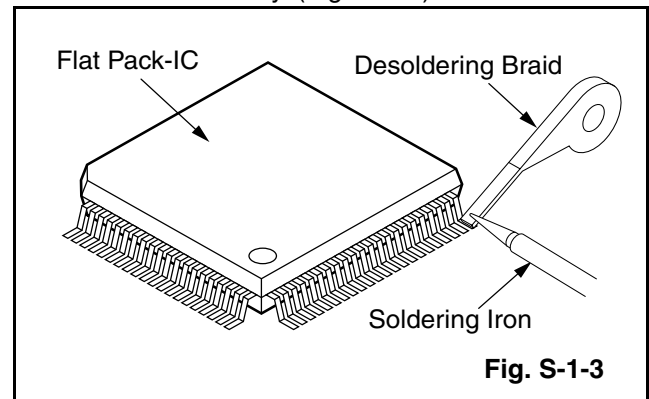
1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

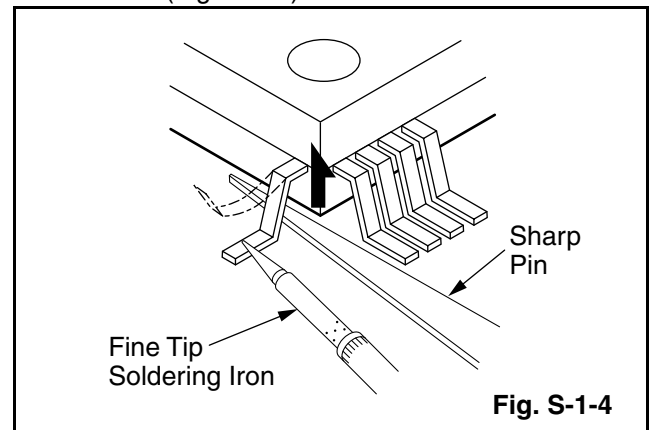


With Soldering Iron:

- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



- (2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)



- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

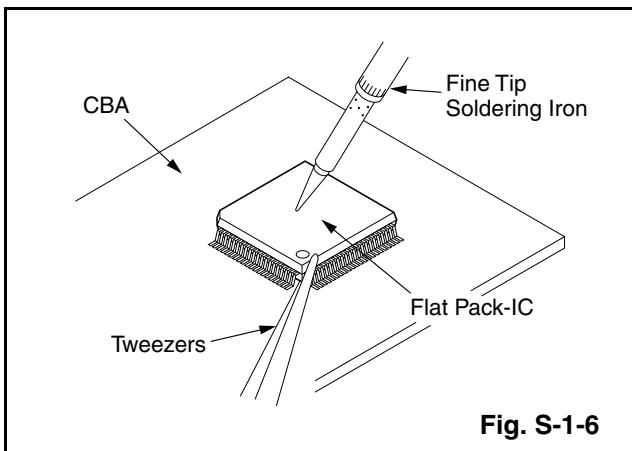
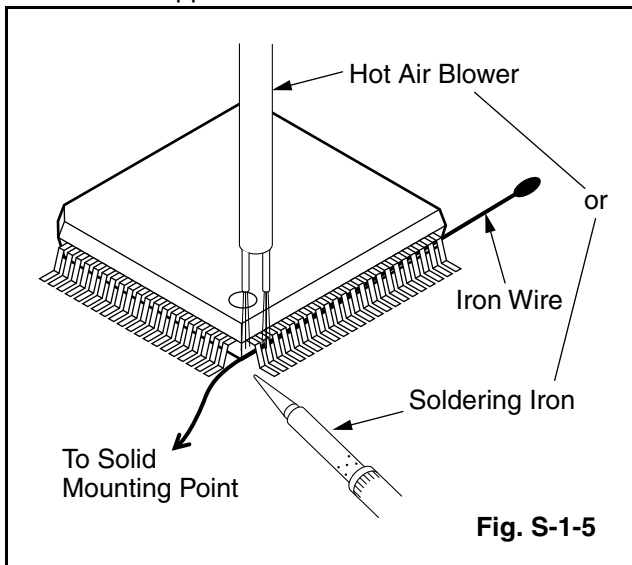
With Iron Wire:

- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5

- (4) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

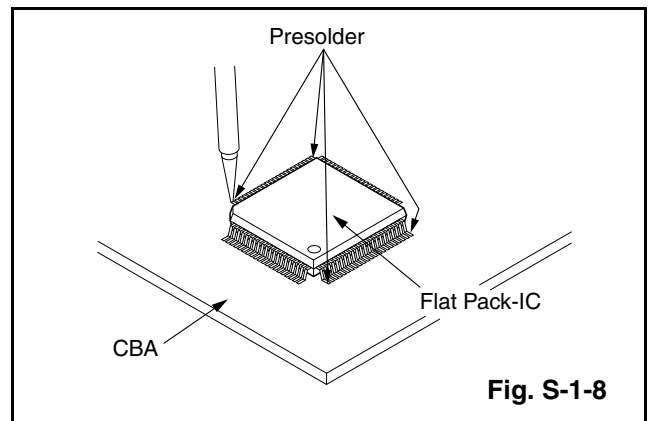
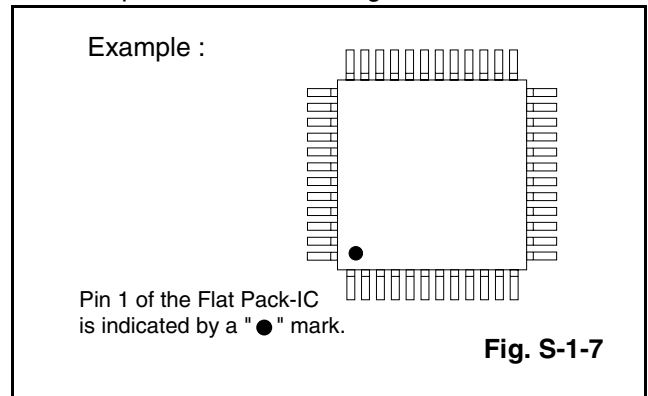
Note:

When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.



2. Installation

- (1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
- (2) The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
- (3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.



Instructions for Handling Semi-conductors

Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

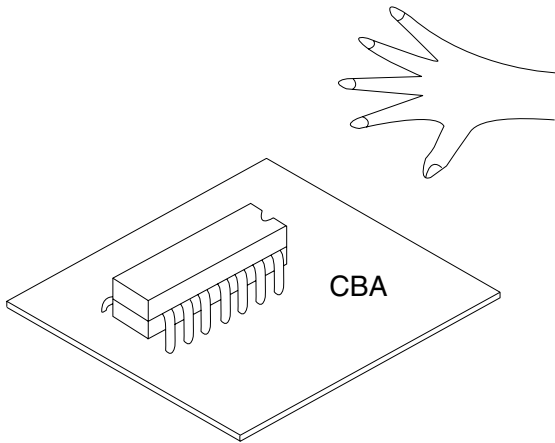
1. Ground for Human Body

Be sure to wear a grounding band ($1M\Omega$) that is properly grounded to remove any static electricity that may be charged on the body.

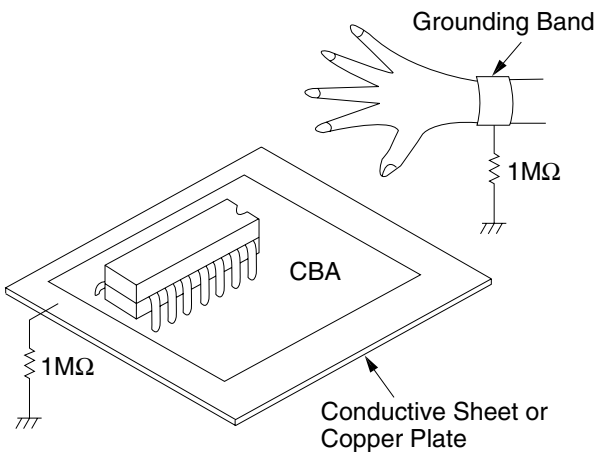
2. Ground for Workbench

(1) Be sure to place a conductive sheet or copper plate with proper grounding ($1M\Omega$) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

< Incorrect >



< Correct >



PREPARATION FOR SERVICING

How to Enter the Service Mode

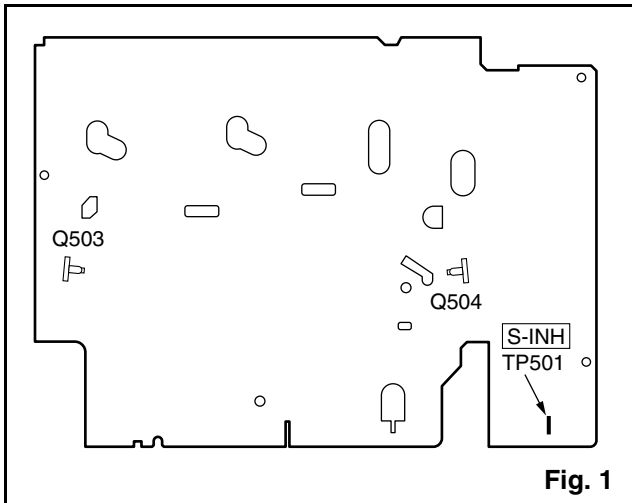
About Optical Sensors

Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

What to do for preparation

Insert a tape into the Deck Mechanism Assembly and press the PLAY button. The tape will be loaded into the Deck Mechanism Assembly. Make sure the power is on, connect TP501 (S-INH) to GND. This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.) See Fig. 1.

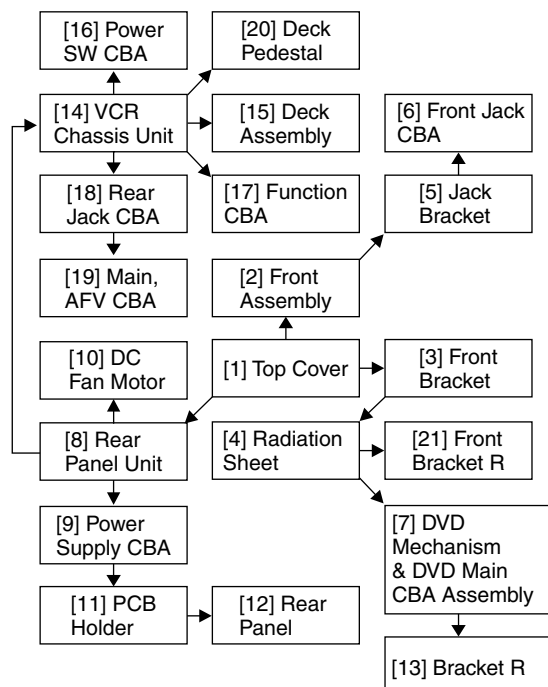


Note: Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[1]	Top Cover	D1	6(S-1)	---
[2]	Front Assembly	D2	*5(L-1), *3(L-2), *CN1505	1 1-1 1-2 1-3
[3]	Front Bracket	D2	2(S-2), (S-3),	---
[4]	Radiation Sheet	D2	-----	---
[5]	Jack Bracket	D3	2(S-4)	---
[6]	Front Jack CBA	D3	Jack Earth Plate	---
[7]	DVD Mechanism & DVD Main CBA Assembly	D4	2(S-5A), 2(S-5B), *CN501, *CN601	---
[8]	Rear Panel Unit	D5	5(S-6), 3(S-7), (S-8A), (S-8B), *CN1503, *CN1504	---

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[9]	Power Supply CBA	D6	4(S-9)	---
[10]	DC Fan Motor	D6	2(S-10)	---
[11]	PCB Holder	D6	3(S-11), Earth Plate	---
[12]	Rear Panel	D6	-----	---
[13]	Bracket R	D7	2(S-12)	---
[14]	VCR Chassis Unit	D7	5(S-13), 5(S-14), (S-15), (S-16)	---
[15]	Deck Assembly	D8	(S-17), (S-18), Desolder	2 3
[16]	Power SW CBA	D8	Desolder	---
[17]	Function CBA	D8	Desolder	---
[18]	Rear Jack CBA	D8	Desolder, Ground Plate	---
[19]	Main, AFV CBA	D8	-----	---
[20]	Deck Pedestal	D9	8(S-19)	---
[21]	Front Bracket R	D9	(S-20)	---

(1) (2) (3) (4) (5)

Note:

(1): Identification (location) No. of parts in the figures

(2): Name of the part

(3): Figure Number for reference

(4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

P=Spring, L=Locking Tab, S=Screw,

CN=Connector

*=Unhook, Unlock, Release, Unplug, or Desolder

e.g. 6(S-1) = six Screws (S-1),

5(L-1) = five Locking Tabs (L-1)

(5): Refer to "Reference Notes."

Reference Notes

CAUTION 1: Locking Tabs (L-1) and (L-2) are fragile. Be careful not to break them.

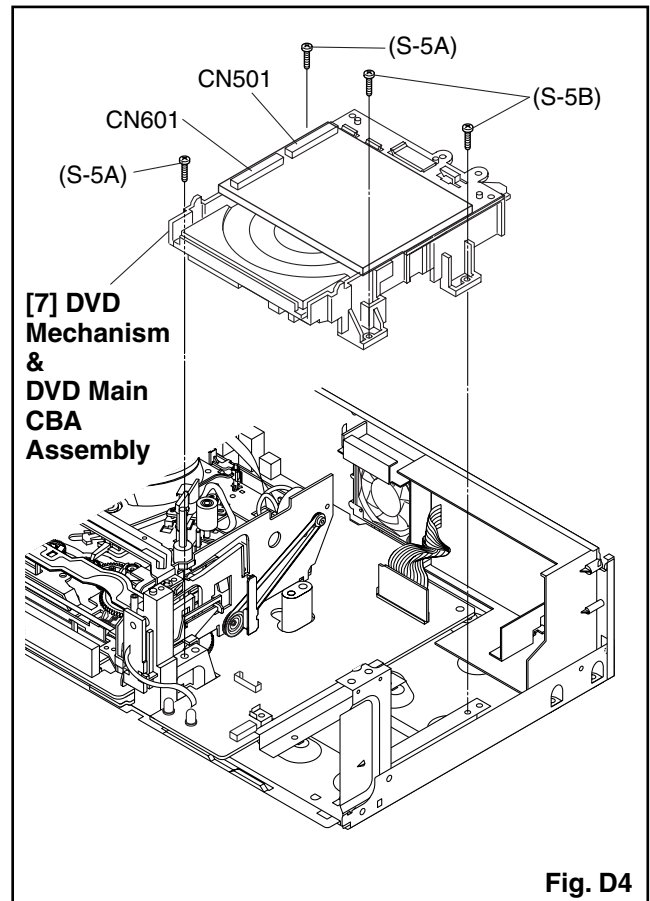
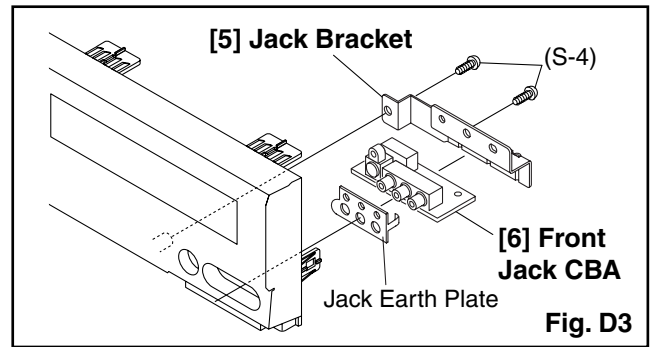
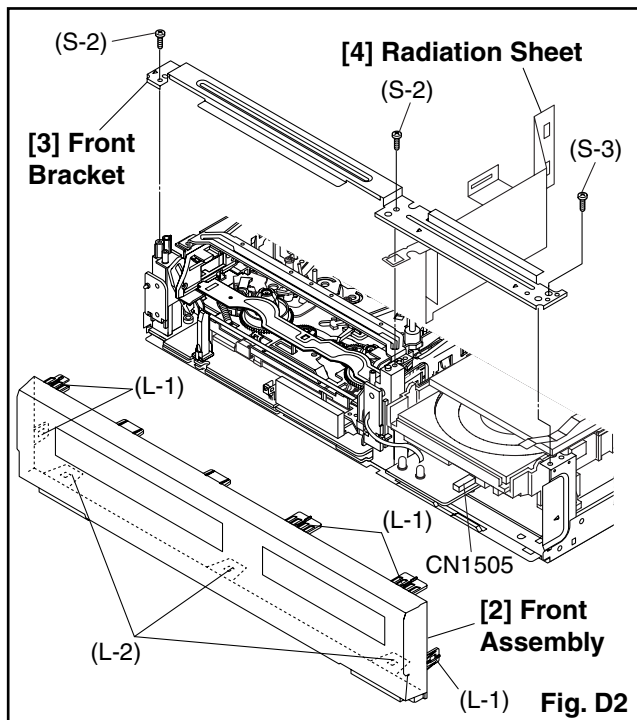
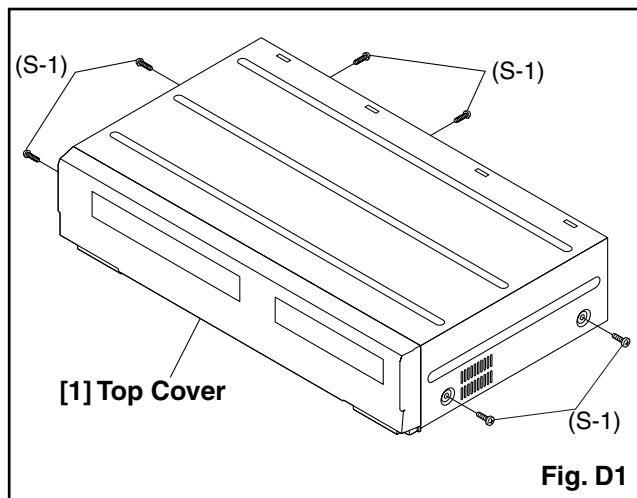
1-1. Release five Locking Tabs (L-1).

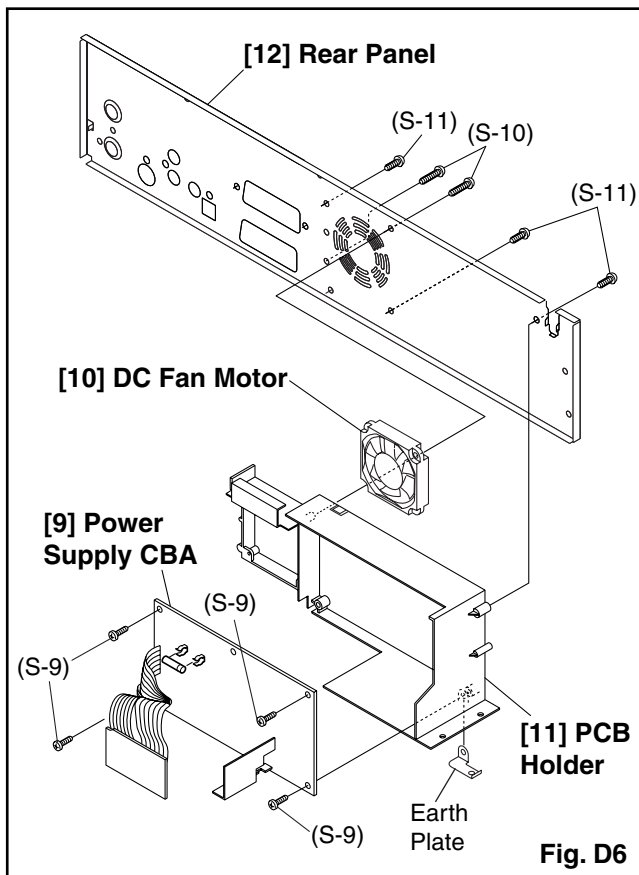
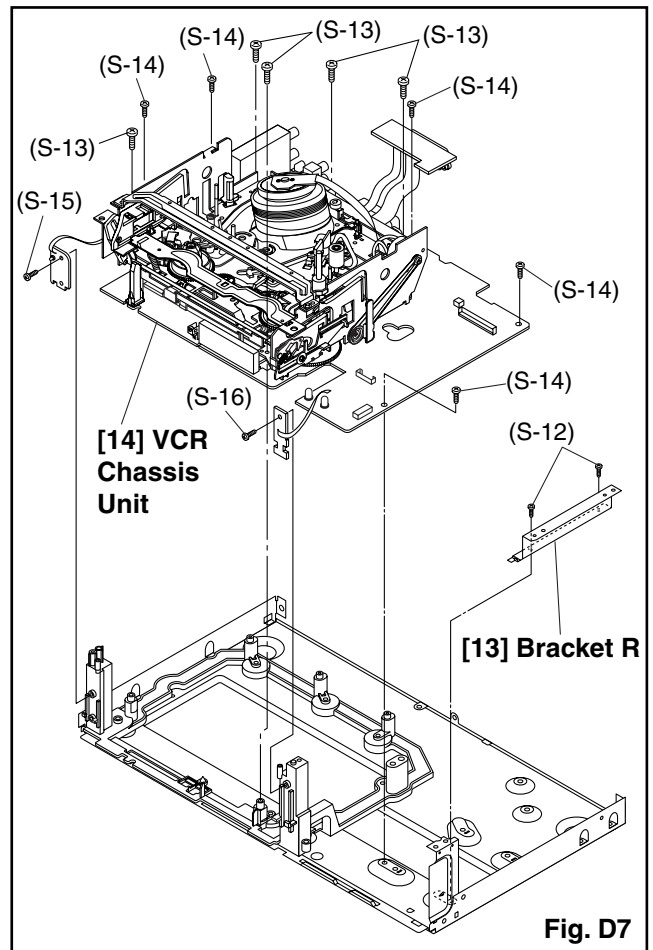
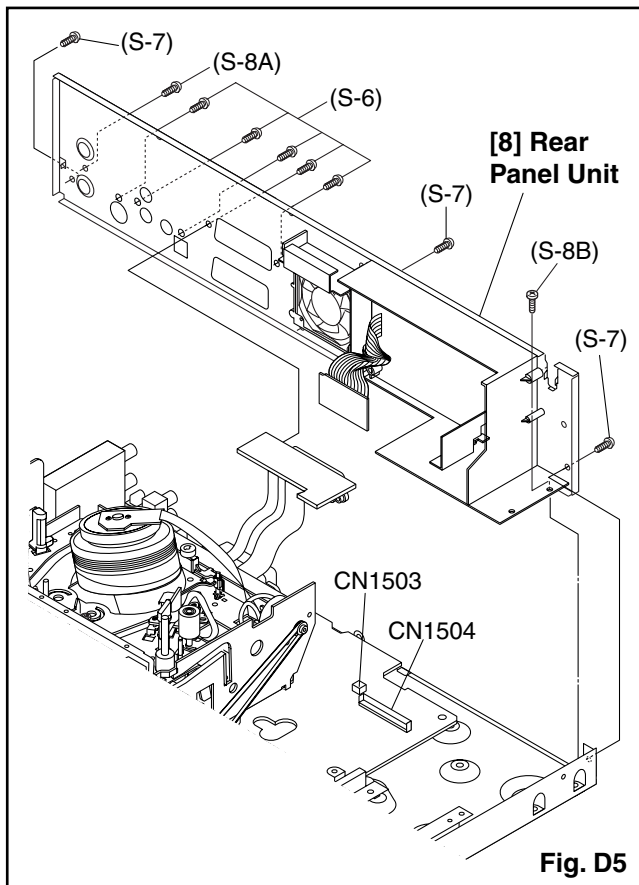
1-2. Release three Locking Tabs (L-2)

1-3. Disconnect Connector (CN1505), and remove the Front Assembly.

2. When reassembling, solder wire jumpers as shown in Fig. D8.

3. Before installing the Deck Assembly, be sure to place the pin of LD-SW on Main CBA as shown in Fig. D8. Then, install the Deck Assembly while aligning the hole of Cam Gear with the pin of LD-SW, the shaft of Cam Gear with the hole of LD-SW as shown in Fig. D8.





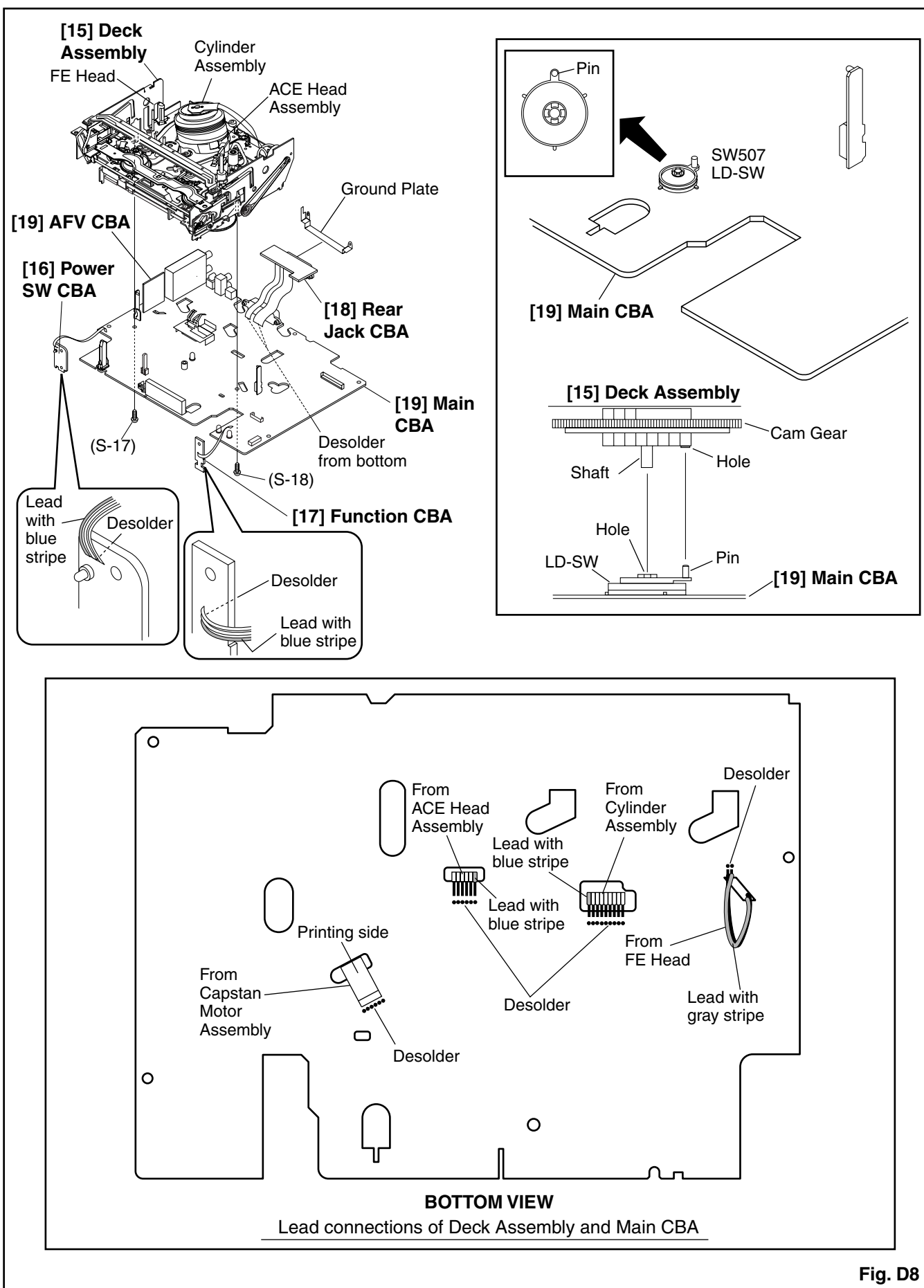
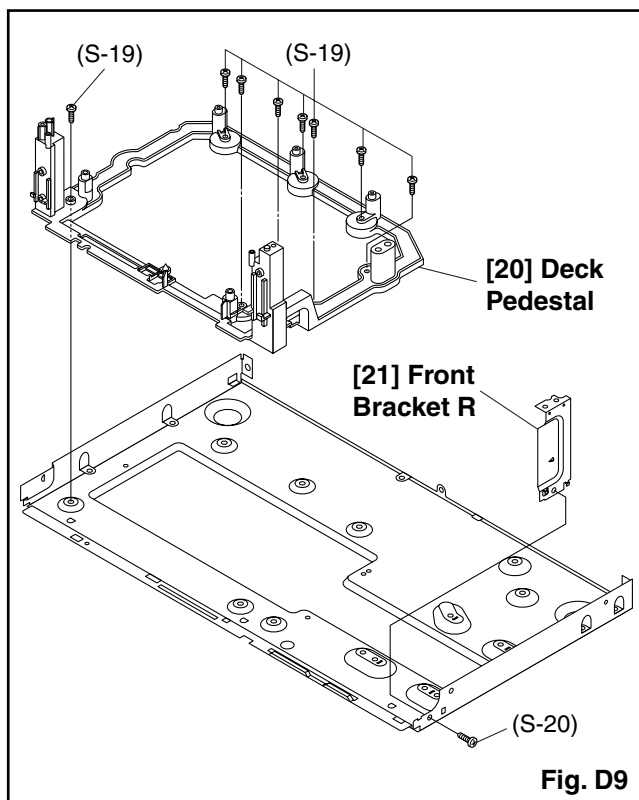


Fig. D8

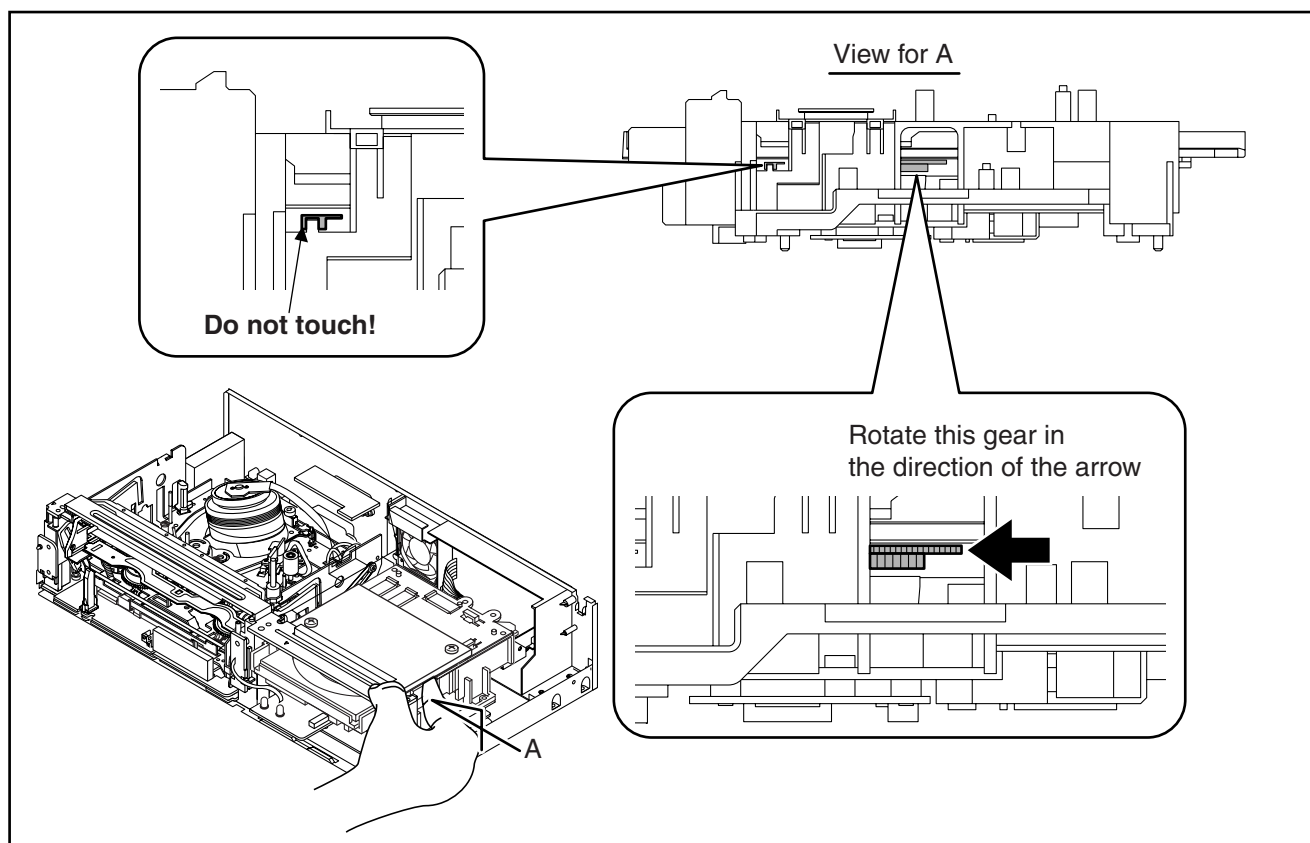


3. How to Eject Manually

< Method 1 >

Note: When servicing, do not touch white resin part as shown below.
When rotating the gear, be careful not to damage the gear.

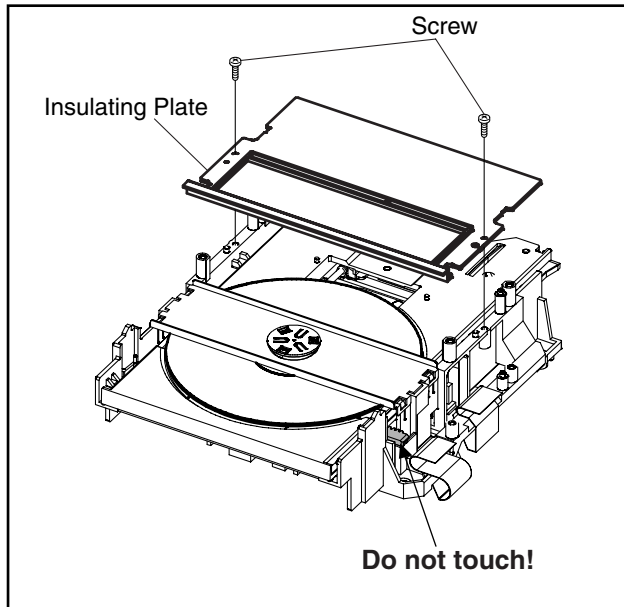
1. Remove the Top Cover.
2. Rotate the gear in the direction of the arrow manually as shown below.



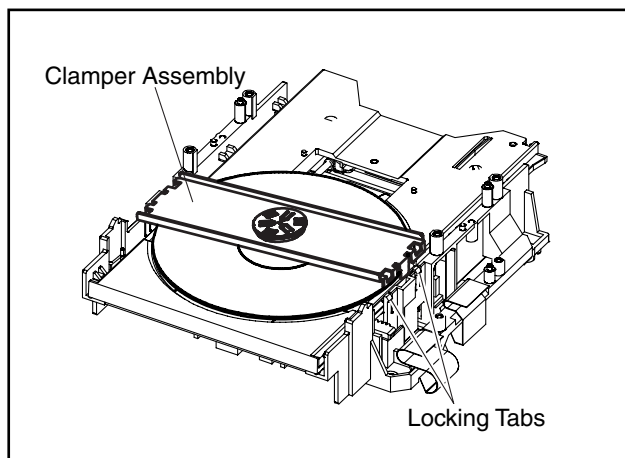
< Method 2 >

Note: When servicing, do not touch white resin part as shown below.

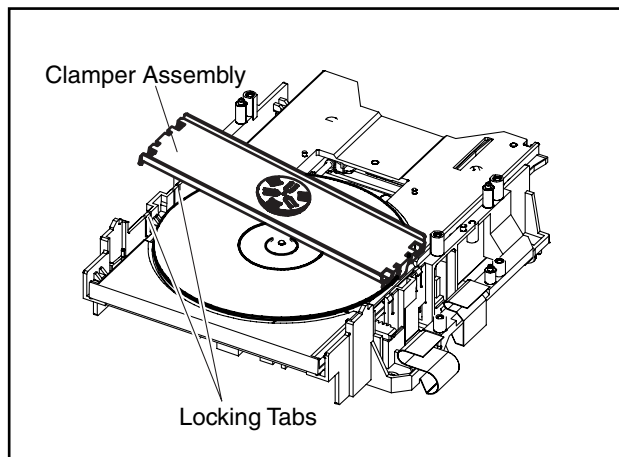
1. Remove the Top Cover, the Front Assembly and the DVD Mechanism & DVD Main CBA Assembly. Then, remove the DVD Mechanism Unit.
2. Remove two screws, and remove the Insulating Plate.



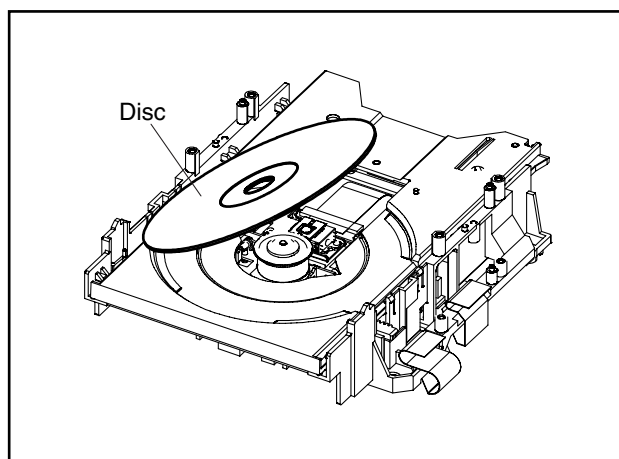
3. Release two Locking Tabs, and lift up one side of the Clamper Assembly.



4. Release the other side of two Locking Tabs, and remove the Clamper Assembly.



5. Remove the disc.



ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: "CBA" is an abbreviation for "Circuit Board Assembly."

NOTE:

1. Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
2. To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press either "PROG. ▼" or "PROG. ▲" button on the front panel first, then the "PLAY" button on the front panel.

Test Equipment Required

1. Oscilloscope: Dual-trace with 10:1 probe,
V-Range: 0.001~50V/Div.,
F-Range: DC~AC-20MHz
2. Alignment Tape (FL6A)

Head Switching Position Adjustment

Purpose:

To determine the Head Switching position during playback.

Symptom of Misadjustment:

May cause Head Switching noise or vertical jitter in the picture.

Test point	Adj. Point	Mode	Input
J236(JK1-V-OUT) TP504(RF-SW) GND	VR501 (Switching Point) (MAIN CBA)	PLAY (SP)	----
Tape	Measurement Equipment	Spec.	
FL6A	Oscilloscope	6.5H±1H (416µs±64µs)	

Connections of Measurement Equipment

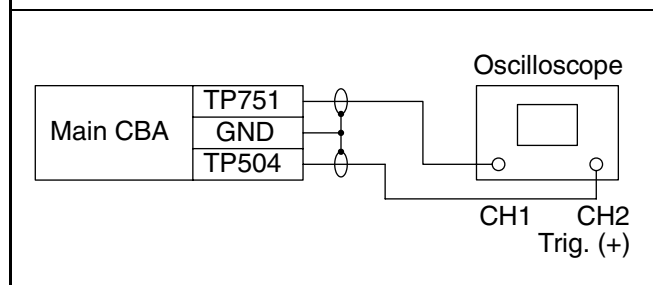
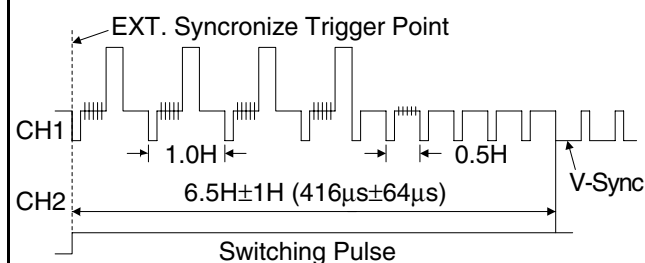


Figure 1



Reference Notes:

Playback the Alignment tape and adjust VR501 so that the V-sync front edge of the CH1 video output waveform is at the 6.5H±1H (416µs±64µs) delayed position from the rising edge of the CH2 head switching pulse waveform.

HOW TO INITIALIZE THE DVD RECORDER & VCR

To put the program back at the factory-default, initialize the DVD recorder & VCR as the following procedure.

< DVD Section >

1. Turn the DVD recorder on.
2. Confirm that no disc is loaded or that the disc tray is open. To put the DVD recorder into the Version display mode, press [CM SKIP], [1], [2], and [3] buttons on the remote control in that order. Fig. a appears on the screen.

*1: "*****" differs depending on the models.

*2: Firmware Version differs depending on the models, and this indication is one example.

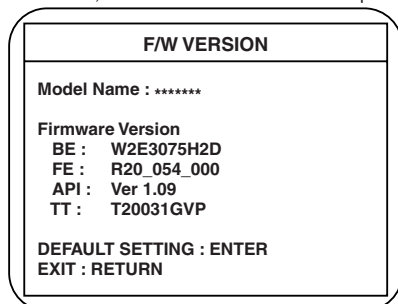


Fig. a Version Display Mode Screen

3. Press [ENTER] button, then the DVD recorder starts initializing. When the initializing is completed, the DVD recorder exits the Version display mode and turns off the power automatically.
 - * To move into the Normal mode from the Version display mode, press [RETURN] button on the remote control instead of [ENTER] button.
 - * When [STANDBY-ON] button is pressed before [ENTER] button is pressed, the DVD recorder exits the Version display mode, then the power turns off.

FIRMWARE RENEWAL MODE

1. Turn the power on and remove the disc on the tray.
2. To put the DVD recorder into version up mode, press [CM SKIP], [6], [5], and [4] buttons on the remote control unit in that order. Then the tray will open automatically.

Fig. a appears on the screen and Fig. b appears on the VFD.

* Firmware Version differs depending on the models, and this indication is one example.

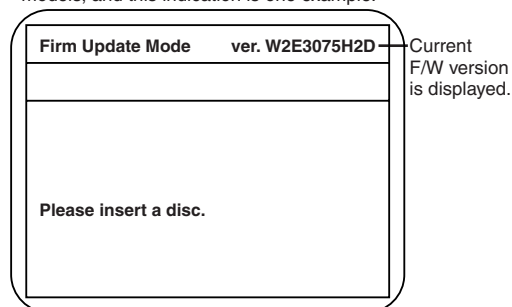


Fig. a Version Up Mode Screen

F - UP

Fig. b VFD in Version Up Mode

3. Load the disc for version up.
Fig. c appears on the screen. The file on the top is highlighted as the default.
When there is only one file to exist, Step 4 will start automatically.

* Firmware Version differs depending on the models, and this indication is one example.

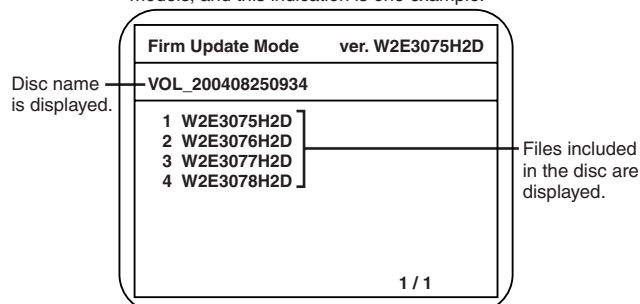


Fig. c Update Disc Screen

4. Select the firmware version pressing arrow buttons, then press [ENTER].
Fig. d appears on the screen and Fig. e appears on the VFD. The DVD recorder starts updating.

About VFD indication of Fig. e:

- 1) When Fig. d is displayed on the screen, "F-UP" is displayed on the VFD.
- 2) When "Firmware Updating... XX% Complete." is displayed on the screen, "XX%" is displayed on the VFD.

* Firmware Version differs depending on the models, and this indication is one example.

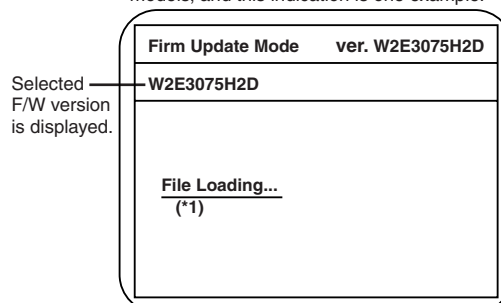


Fig. d Programming Mode Screen

24

Fig. e VFD in Programming Mode (Example)

The appearance shown in (*1) of Fig. d is described as follows.

No.	Appearance	State
1	File Loading...	Sending files into the memory
2	Firmware Updating... XX% Complete.	Writing new version data
---	Firmware Update Failure	Failed in updating

5. After updating is finished, the tray opens automatically.

Fig. f appears on the screen and Fig. g appears on the VFD.

* Firmware Version differs depending on the models, and this indication is one example.

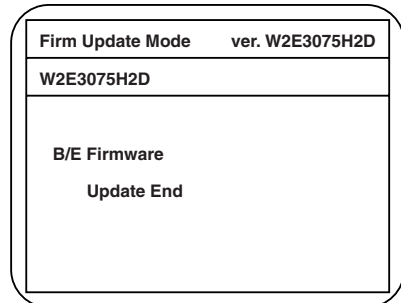


Fig. f Completed Program Mode Screen

End

Fig. g VFD in Completed Program Mode

At this time, no button is available.

6. Press [STANDBY-ON] button to turn the power off. Then press it again.

FUNCTION INDICATOR SYMBOLS

< VCR Section >

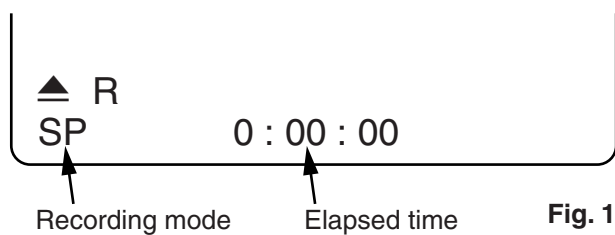
Note:

If a mechanical malfunction occurs, the power is turned off. When the power comes on again after that by pressing [FUNCTION] button, an error message is displayed on the TV screen for 5 seconds.

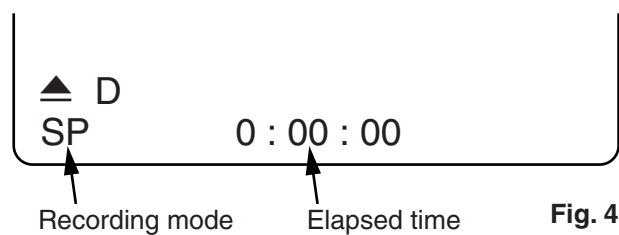
MODE	INDICATOR ACTIVE
When reel or capstan mechanism is not functioning correctly	"▲ R" is displayed on a TV screen. (Refer to Fig. 1.)
When tape loading mechanism is not functioning correctly	"▲ T" is displayed on a TV screen. (Refer to Fig. 2.)
When cassette loading mechanism is not functioning correctly	"▲ C" is displayed on a TV screen. (Refer to Fig. 3.)
When the drum is not working properly	"▲ D" is displayed on a TV screen. (Refer to Fig. 4.)
P-ON Power safety detection	"▲ P" is displayed on a TV screen. (Refer to Fig. 5.)

TV screen

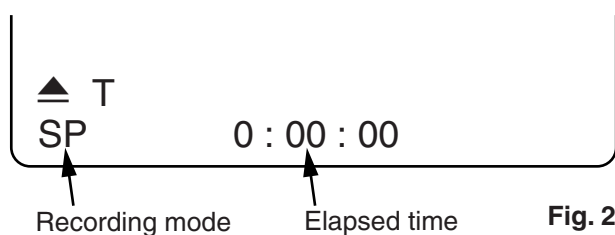
When reel or capstan mechanism is not functioning correctly



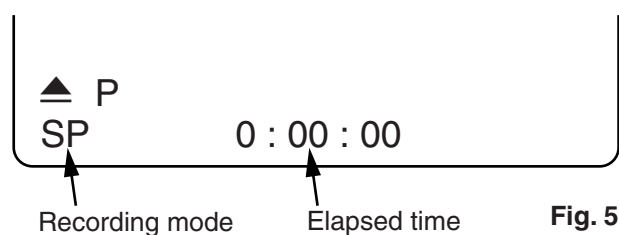
When the drum is not working properly



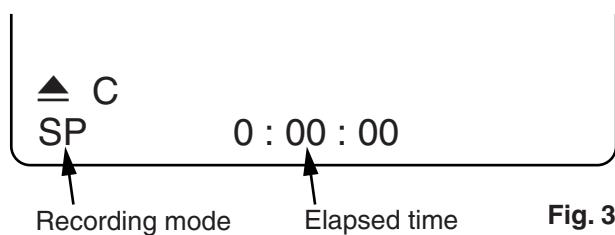
When tape loading mechanism is not functioning correctly



P-ON Power safety detection

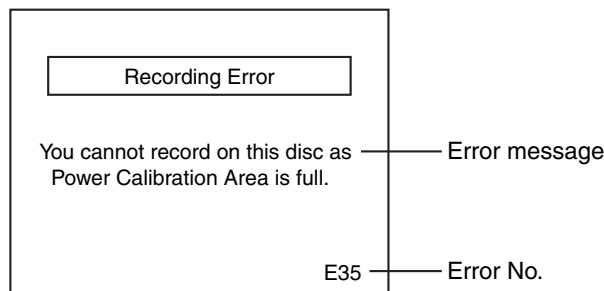


When cassette loading mechanism is not functioning correctly



< DVD Section >

Note: If an error occurs, a message with the error number appears on the screen.



Message	Solution	Error No.	Error Description	Priority
Can not record on this disc.	Insert the recordable disc, and ensure the disc status satisfies the recording requirements.	1	An error occurs during data reading.	-
		2	There is no reply for 15 seconds in Test Unit Ready.	-
		3	Cannot write the data after trying to write three times.	-
		4	An error occurs with OPC.	-
		5	During recovery in a record.	-
		6	An error occurs even if it do recovery of a record three times.	-
		7	An error occurs in a format.	-
		8	It cannot start an encode.	-
		9	There is not NV_PCK/RDI_PCK in data doing an encode.	-
		10	Encode Pause condition continued for 10 minutes.	-
		11	Encode Pause condition continued by normal REC condition for 10 minutes.	-
		12	Differ in an address and do not get StreamID of RDI/VIDEO.	-
		13	It is a reply that "ATAPI is not readable."	-
		14	Cannot write the data after recovering SMALL VMGI.	-
		15	Cannot write the data after DVD-R Reverse Track.	-
		16	An error occurs in Finalize Close.	-
		17	An error occurs in Rec Stop Close.	-
		18	An error occurs in PCA Full (DVD_R).	-
		19	Safety Stop occurs during editing.	-
		20	High Speed Disc.	2
		21	The disc which is not formatted.	5
		22	The disc that Disc Error occurred.	3
		23	The -R Disc of VR Mode.	6
		24	The disc except DVD-R/RW or DVD-R finalized disc	1
This program is not allowed to be recorded.	You cannot record copy prohibited programs.	25	During the Macrovision picture input.	11
		26	During the CGMS picture input.	12
This program is not recordable in Video mode.	Set "DVD-RW Recording Format" to "VR mode".	27	During the CGMS picture (possible a record once) input. (Video Format Disc)	12
This program is not allowed to be recorded on this disc.	Insert a ver.1.1 CPRM compatible DVD-RW disc.	28	During the CGMS picture (possible a record once) input. (Disc which there is not for the correspondence to VR Format CPRM)	12

Message	Solution	Error No.	Error Description	Priority
This disc is protected and not recordable.	Release the disc protect setting in the Disc Setting menu.	29	Disc Protected Disc.	7
Disc is full. (No area for new recording)	Insert the recordable disc with enough recording space.	30	There is no it in a space field.	5
You cannot record more than 99 titles on one disc. (The maximum is 99.)	Delete unnecessary titles.	31	It is recorded a 99 title. (Video Format Disc)	7
		32	It is recorded a 99 title. (VR Format Disc)	8
You cannot record more than 999 chapters on one disc. (The maximum is 999.)	Delete unnecessary chapter markers.	33	There is 999 number of total chapter. (VR Format Disc)	9
You cannot record on this disc as Control Information is full.	Delete unnecessary titles.	34	There is not a space to a record field of control information.	10
You cannot record on the disc as Power Calibration Area is full.	Insert a new disc.	35	PCA Full. (in REC start)	4
This disc is already finalized.	Release the finalizing for this disc.	36	It is done Finalize. (Video Format Disc)	6
Can not record on this disc.	Repeat the same operation.	37	Access to Memory Area range outside.	-
		38	Sector Address is wrong.	-
		39	BUP writing error of chapter editing.	-

If an error occurs during the timer recording, one of the following error numbers (40 to 42) or the above error messages (error number: 1 to 39) is displayed on the recording menu after timer recording.
(Once the screen of the program line is exited, the program line for the error will be cleared.)
(No Error Message is displayed for the error No. 40 ~ 42.)

[Example: DRV-A2621/DRV-A2631]

Timer Programming						VCR DVD
<input type="checkbox"/> Date	<input type="checkbox"/> Start	<input type="checkbox"/> End	<input type="checkbox"/> CH	<input type="checkbox"/> DVD	<input type="checkbox"/> Speed	
* JAN/01	12:57AM	1:57AM	8	DVD	E40	
2.	---					
3.	---					
4.	---					
5.	---					
6.	---					
7.	---					
8.	---					

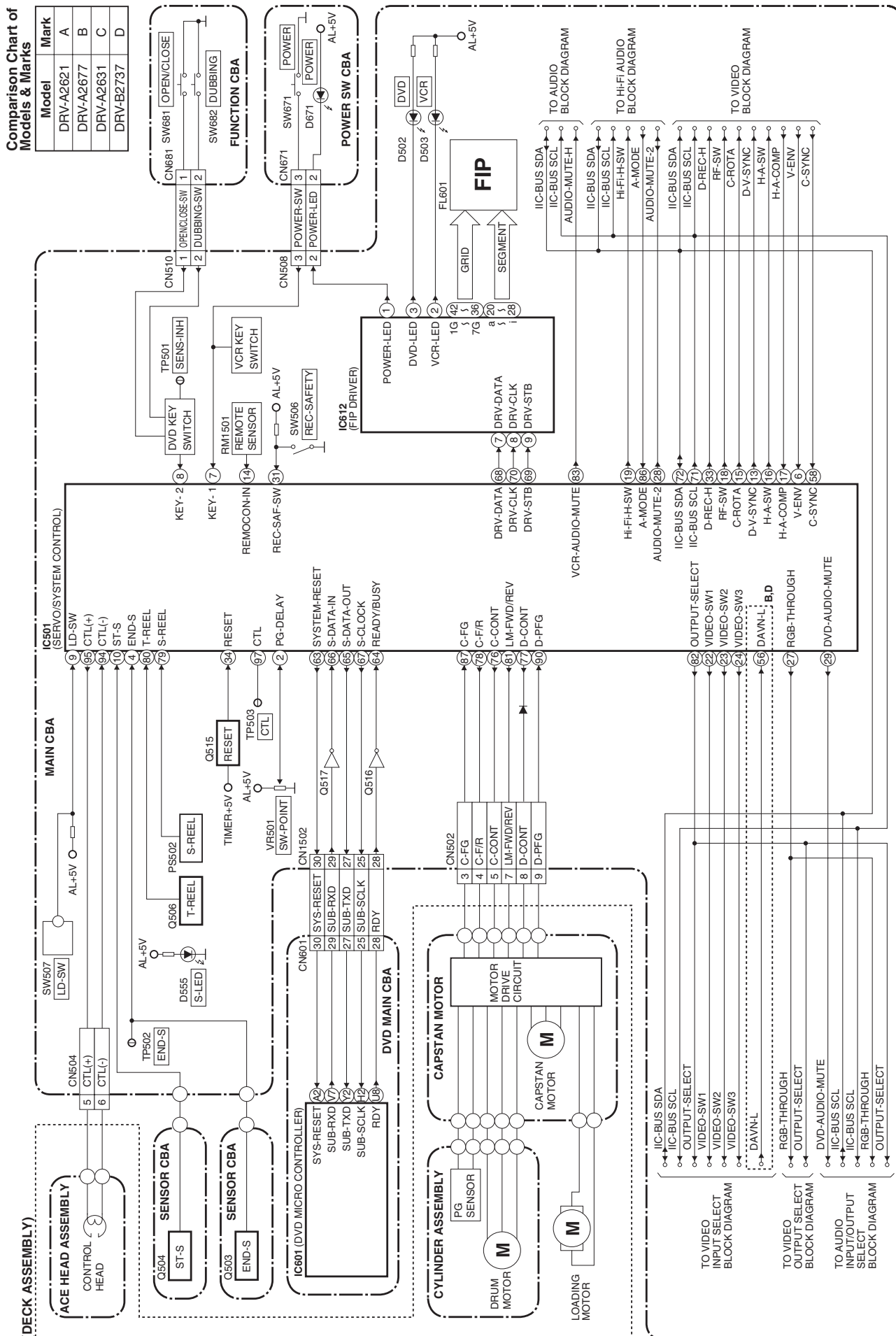
The speed mode changes to the error number.

A program with the error number is grayed out and asterisked on the timer programming list.

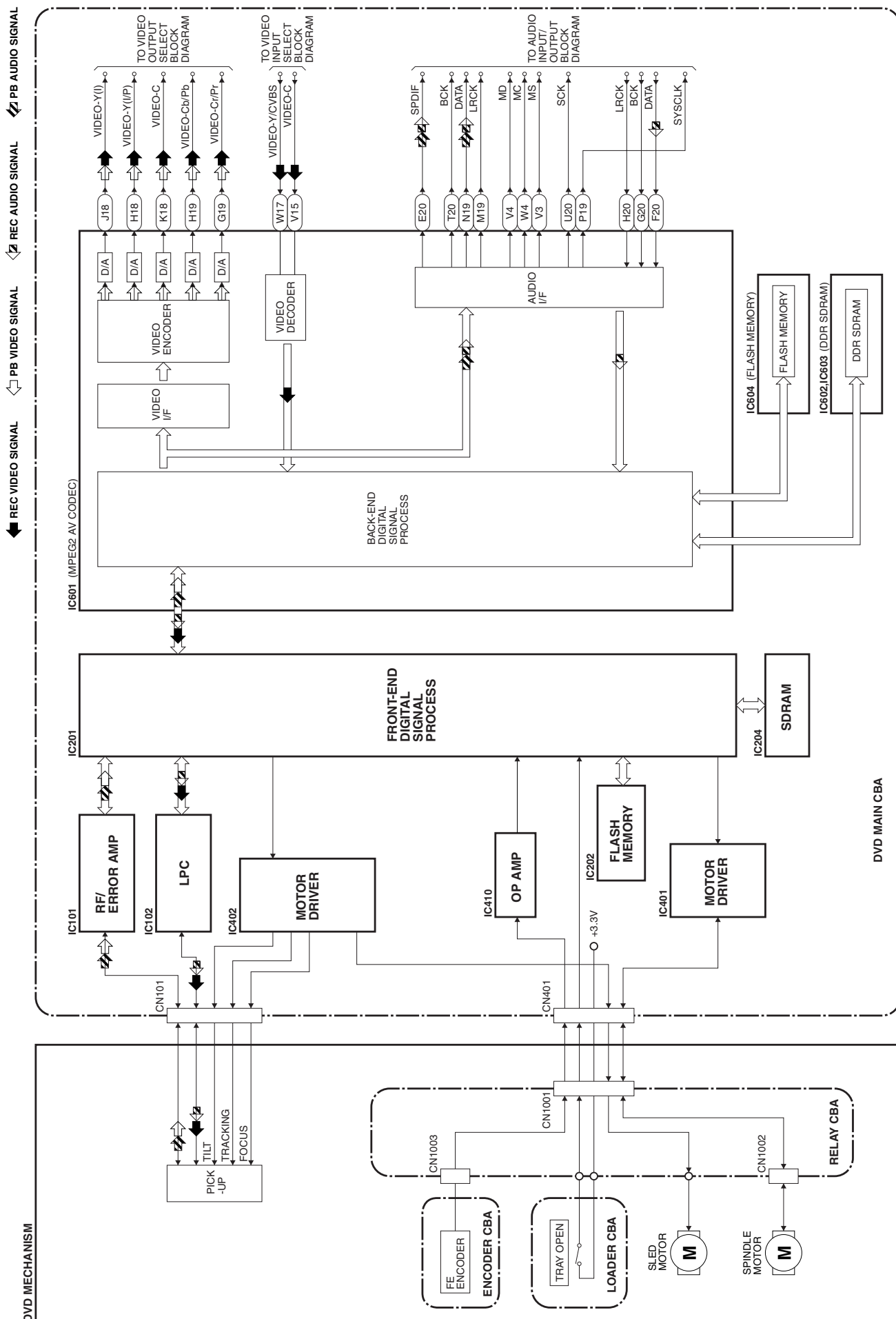
Message	Solution	Error No.	Error Description	Priority
Error message is not displayed.	<ul style="list-style-type: none"> - Set the timer programming correctly. - Set the timer programming before the start time. - Insert a recordable videotape with a record tab. 	40	<ul style="list-style-type: none"> - Some portion has not been recorded because of program overlapping. - Recording did not start at the start time. - No Videotape is inserted. Videotape ran out during recording. 	-
	Turn the power on and set the clock correctly then set timer programming again.	41	Power failed	-
	Insert the recordable disc.	42	No disc when recording	-

BLOCK DIAGRAMS

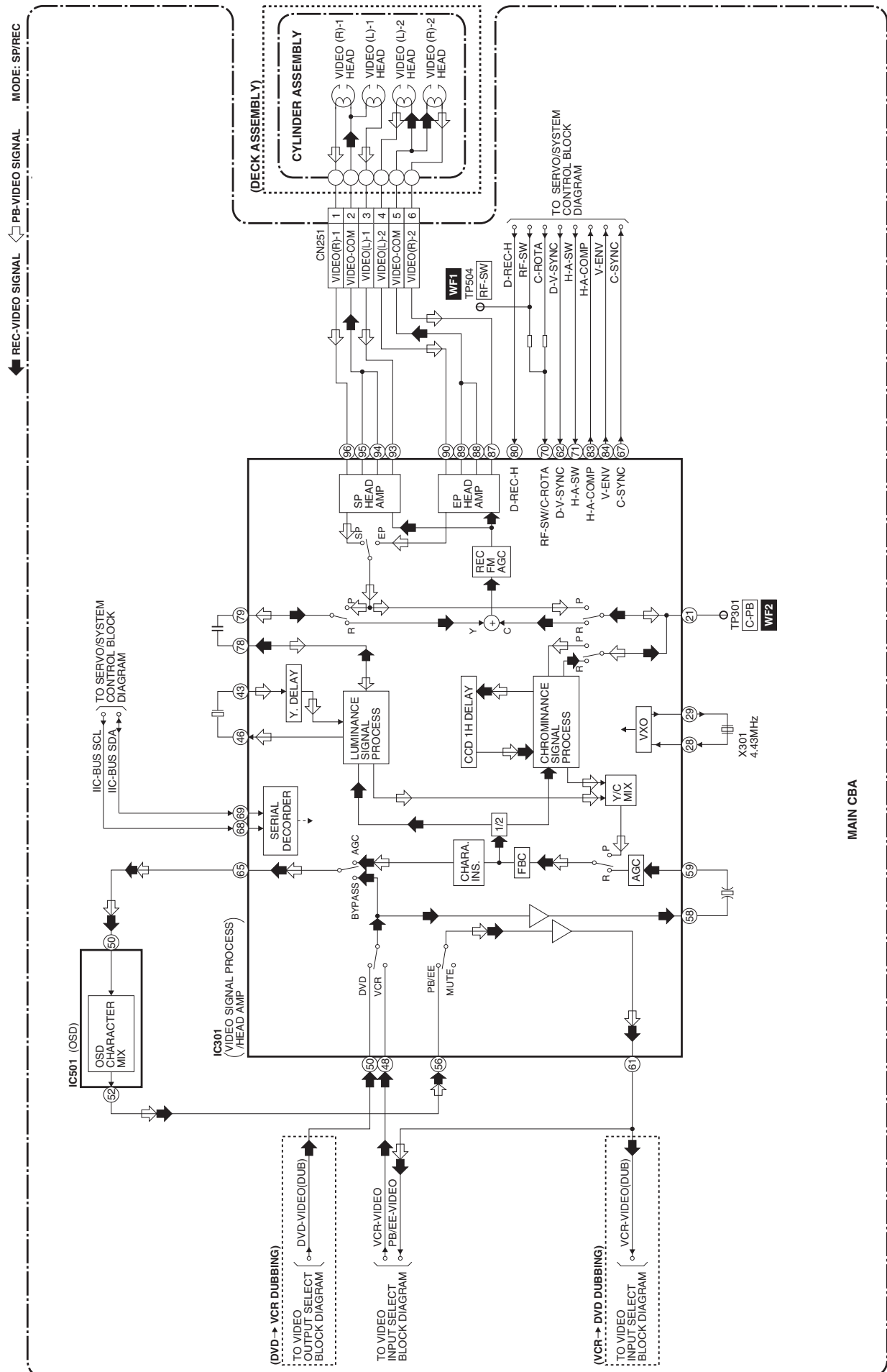
Servo/System Control Block Diagram



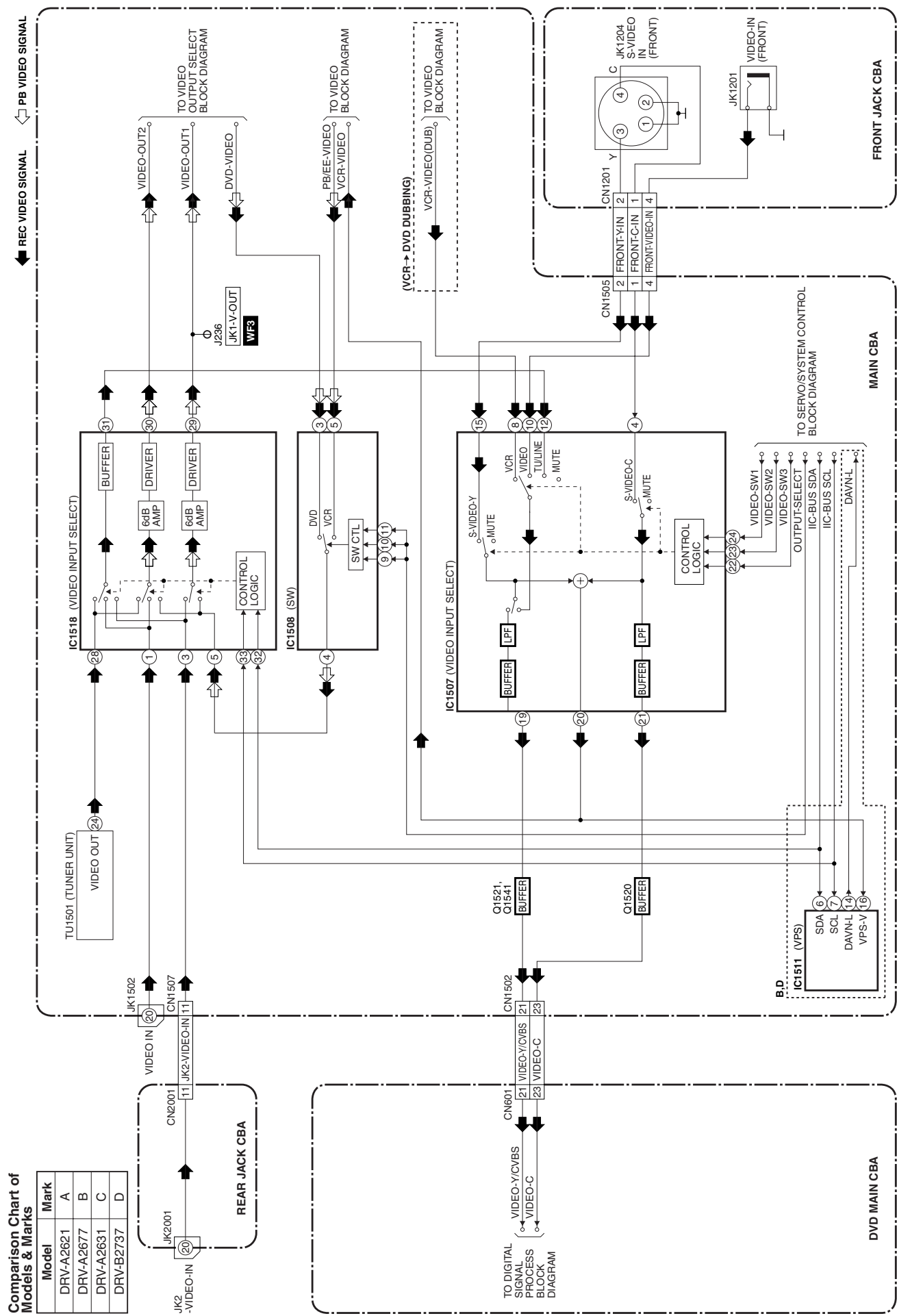
Digital Signal Process Block Diagram



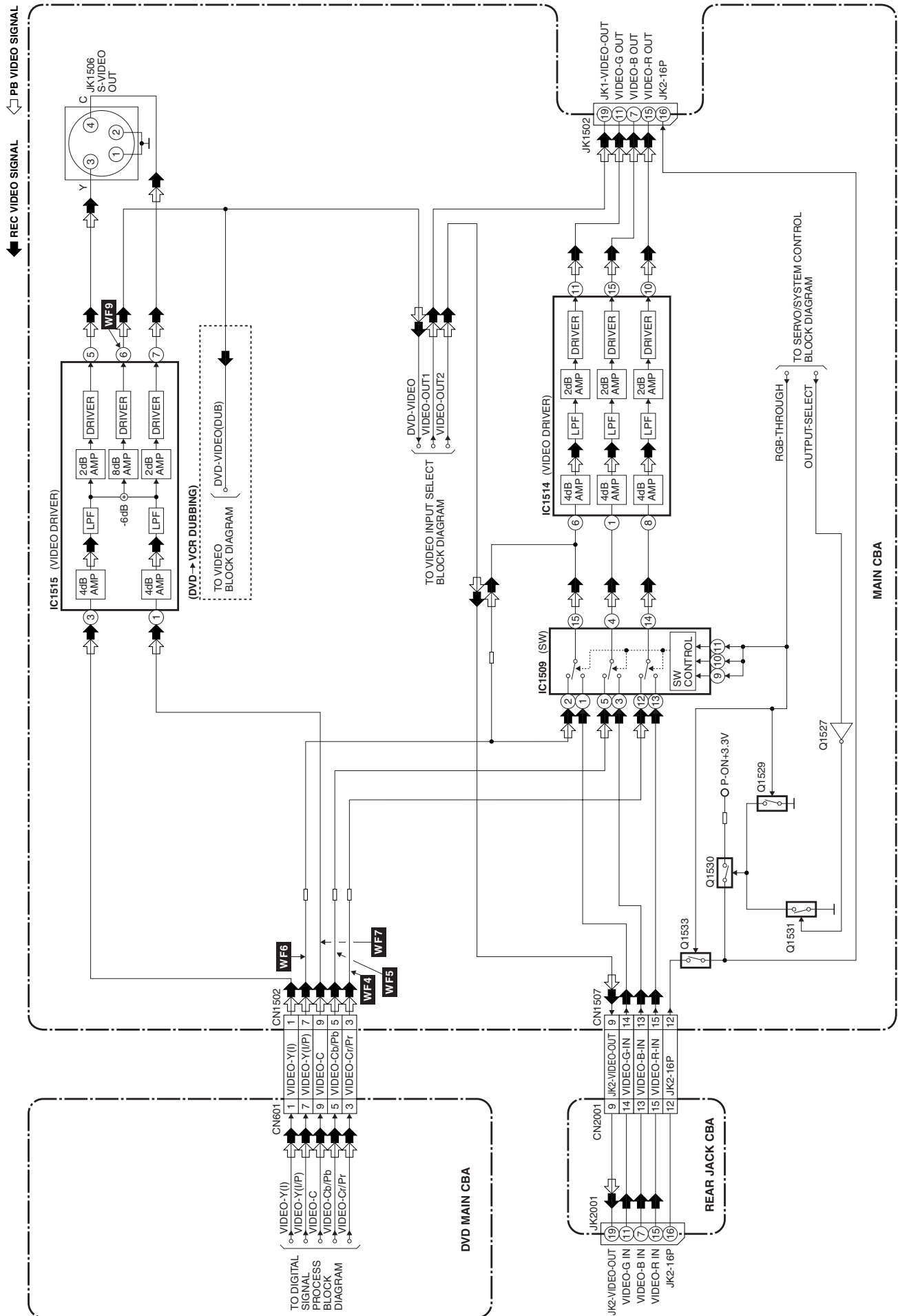
Video Block Diagram



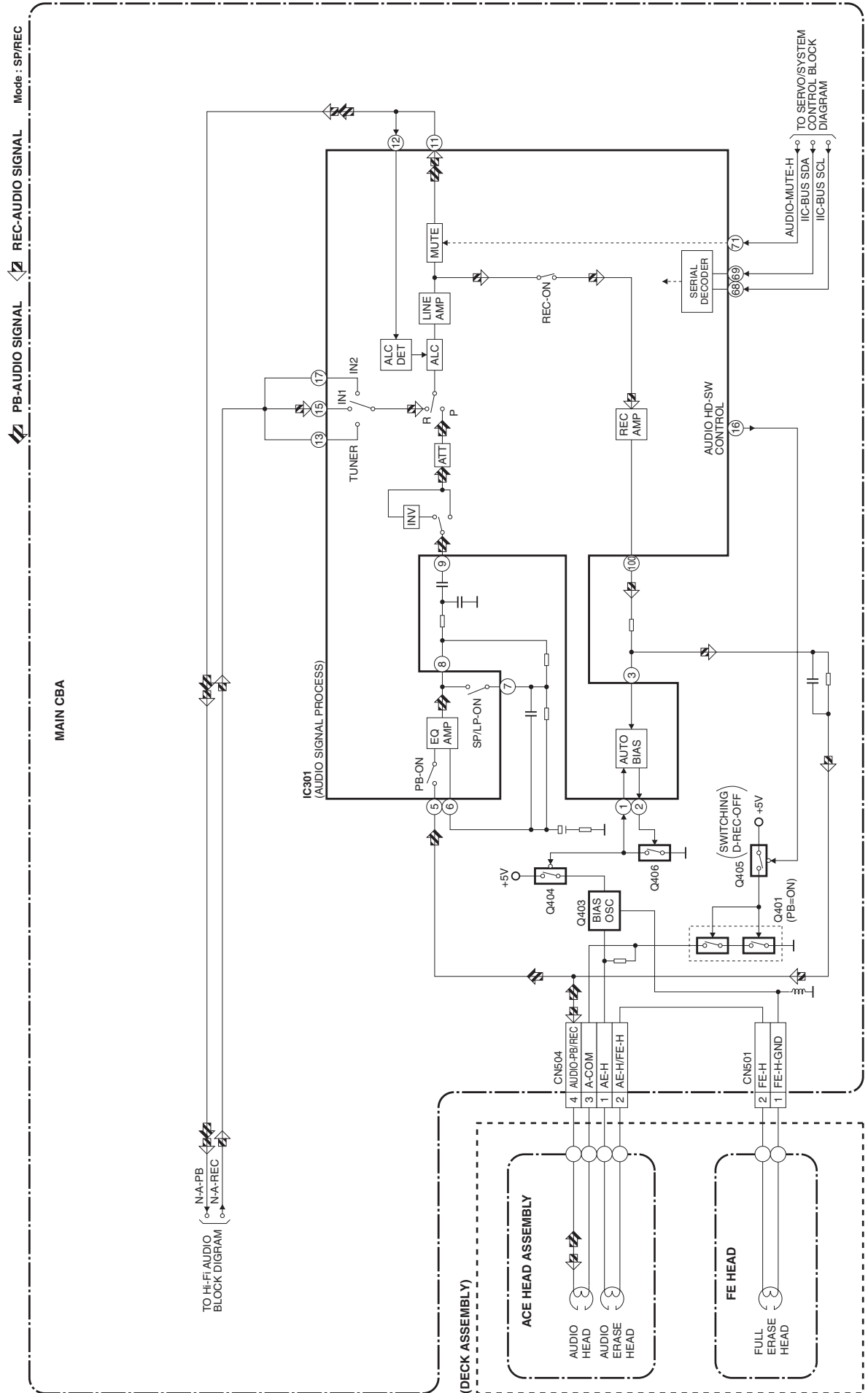
Video Input Select Block Diagram



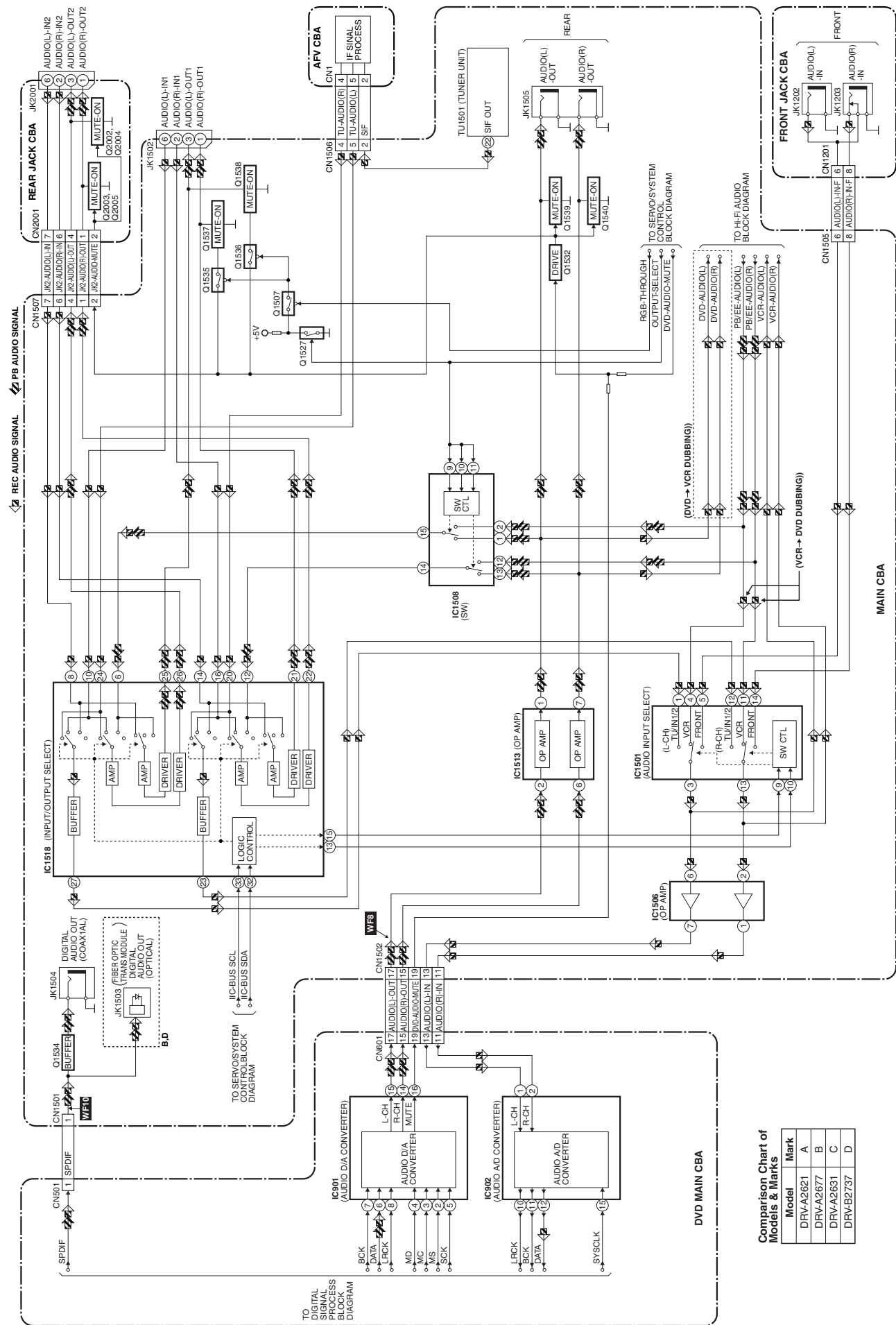
Video Output Select Block Diagram



Audio Block Diagram



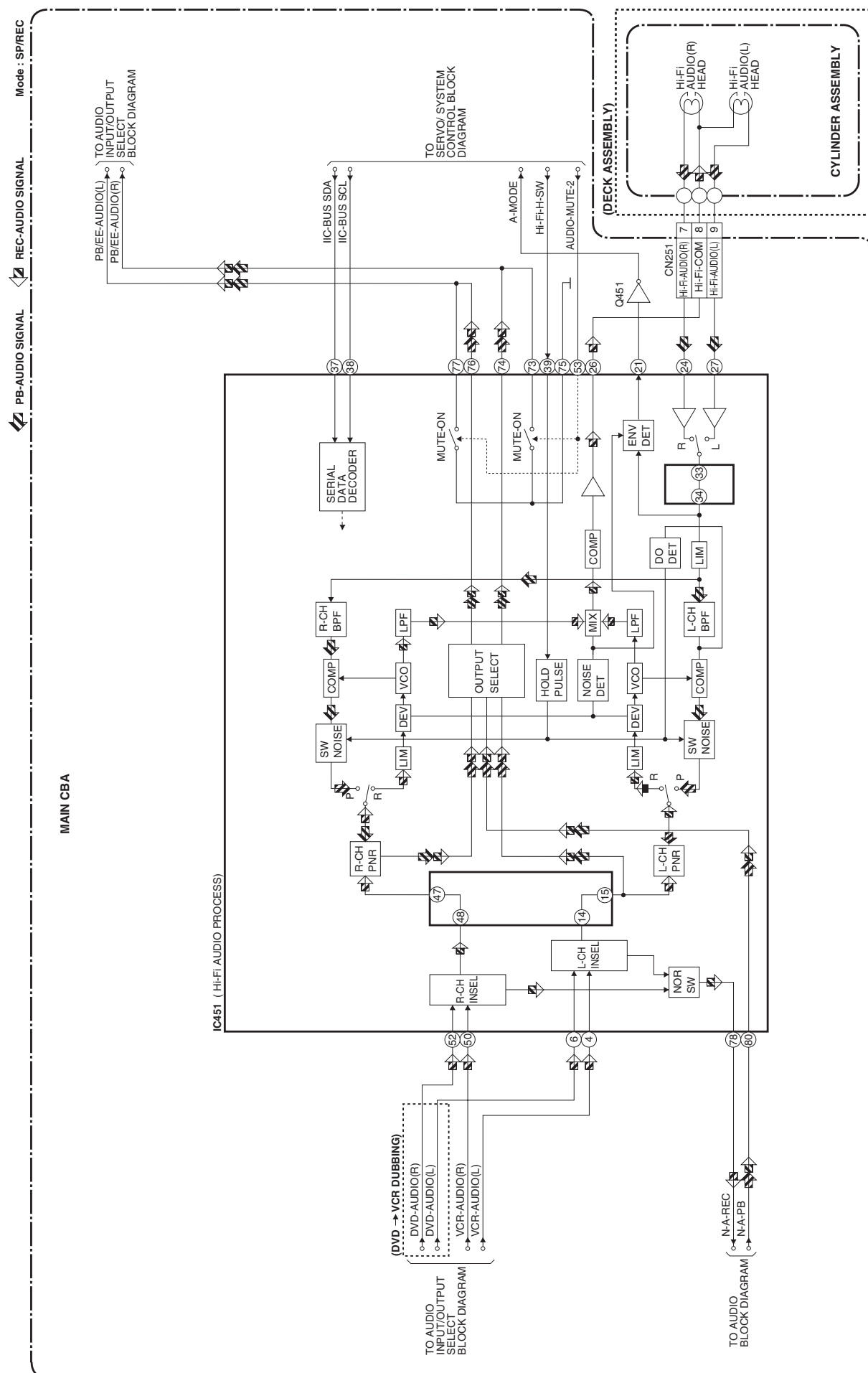
Audio Input/Output Select Block Diagram



Comparison Chart of Models & Marks

Model	Mark
DRV-A2621	A
DRV-A2677	B
DRV-A2631	C
DRV-B2737	D

Hi-Fi Audio Block Diagram

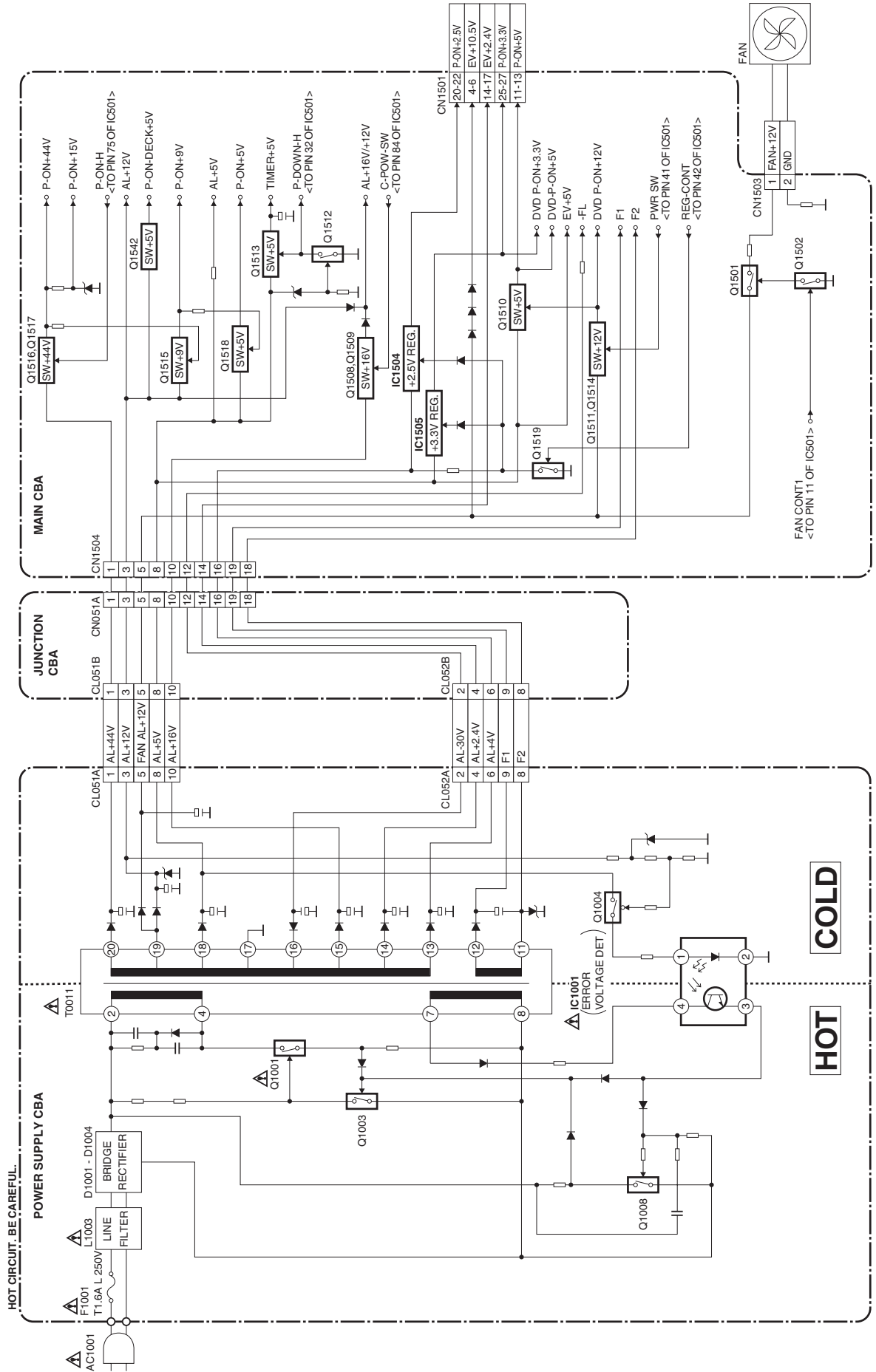


Power Supply Block Diagram

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " ⚠ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P=10^{-6} \mu F$).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:

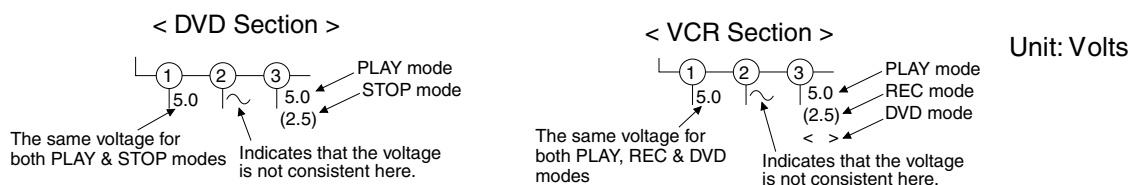
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications for PLAY and REC modes on the schematics are as shown below:



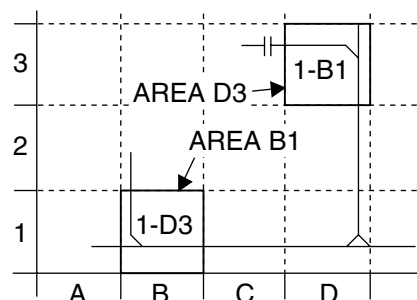
5. How to read converged lines

1-D3

 Distinction Area
 Line Number
 (1 to 3 digits)

Examples:

1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

MAIN CBA

IC501
M3776AMCH-AD26P
(MICROCONTROLLER 8BIT)
(SERVO/SYSTEM CONTROL)

Connectors and Pins:

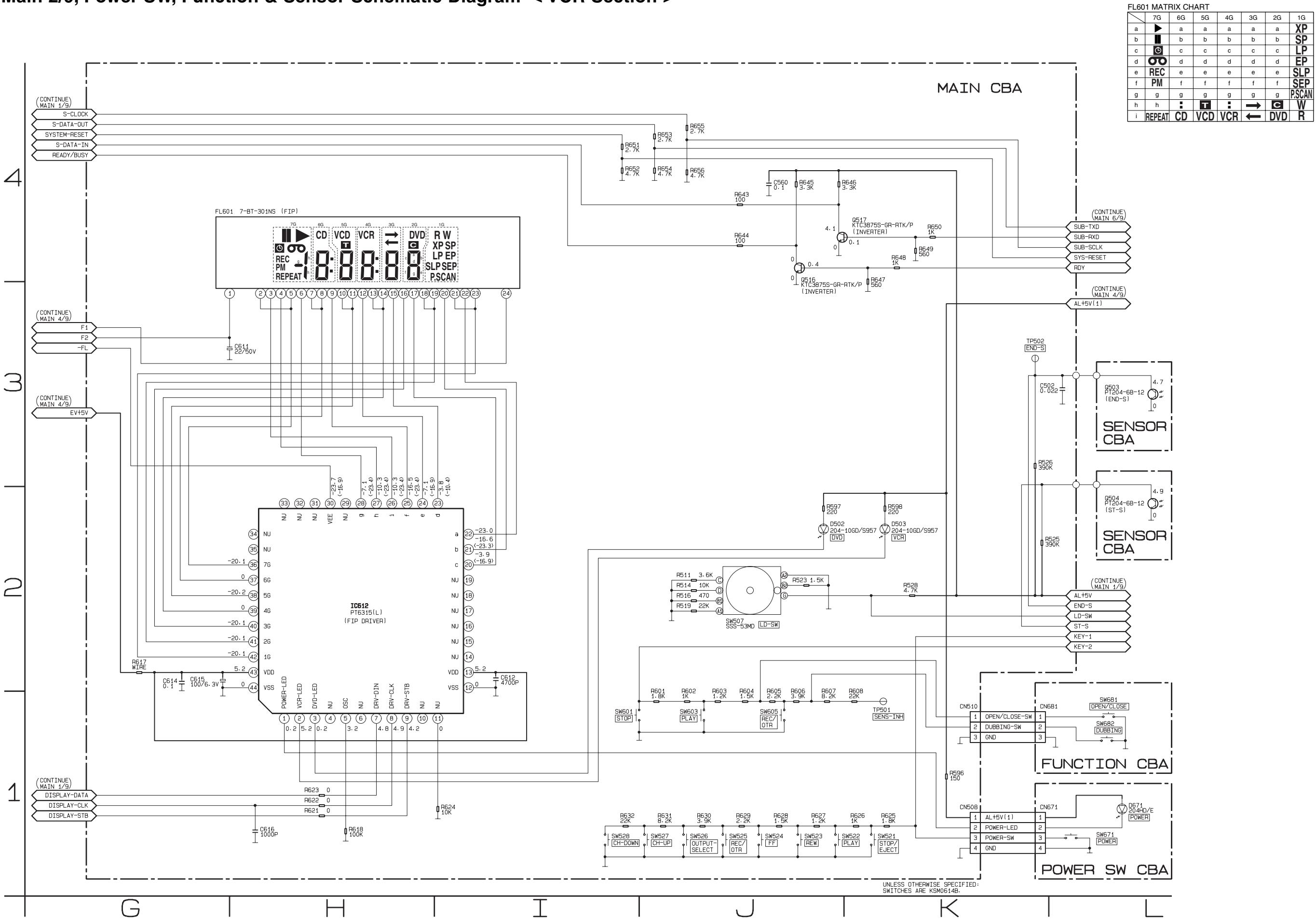
- CN504 (TO ACE HEAD ASSEMBLY):** AE-H (1), AE-H/FE-H (2), A-COM (3), AUDIO-PB/REC (4), CTL(+) (5), CTL(-) (6).
- CN501 (TO FE HEAD):** FE-H-GND (1), FE-H (2).
- Connectors and Pins:**
 - 1-C4, 3-C4, 2-C4 (DISPLAY-DATA, DISPLAY-CLK, DISPLAY-STB)
 - 4-B1, 5-B1, 6-C1, 7-B1, 8-B1 (AL+5V, END-S, LD-SW, ST-S, KEY-1, KEY-2)
 - 11-A1, 12-E3, 13-E4, 14-E4, 45-B1 (SC2-IN, OUTPUT-SELECT)
 - 15-E2, 47-E3, 56-E3, 42-B4 (PWR-SW, FAN-CONT1, REG-CONT, P-ON-H)
 - 64-B1 (REMOCON-IN, DVD-POW-SAFETY)
 - 11-A3, 38-D1 (AL+16V/+12V, C-POW-SW, P-DOWN-H, AL+12V(2), P-ON+5V, AL+5V(1), TIMER+5V, AL+12V(1), P-ON+15V)
- Connectors and Pins:**
 - 19-E1, 20-E1, 21-E4, 42-A2, 24-E2, 25-E3, 2-A4, 1-A4, 18-E2, 17-E2, 26-E2, 23-E2, 57-E2, 58-E2, 28-E2, 29-E1, 59-E1, 30-E1, 31-E1, 32-E1 (Various control and power pins)
 - 80, 79, 0, 2-5, 78, 77, 76, 75, 74, 73, 72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51 (IC501 pins)
 - 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31 (IC501 pins)
 - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 (IC501 pins)
 - 45-A3, 64-A3, 43-E2, 52-E1, 8-A3, 5-A3, 6-A3, 53-E1, 49-E1, 50-E1, 51-E1, 48-E1, 39-E3, 61-E4, 35-E4, 60-E4, 37-E3, 63-E2, 40-E3, 46-E2, 38-A1, 19-B4, 20-B4 (Various control and power pins)
 - 29-D4, 53-C1, 32-D4, 50-C1, 48-C1, 49-C1, 31-D4, 30-D4, 51-C1, 52-B1, 10-A3, 59-D4 (Various control and power pins)

Other Components:

- Resistors:** R539, R540, R524, R558, R576, R534, R567, R551, R569, R568, R581, R584, R578, R577, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000.
- Capacitors:** C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634

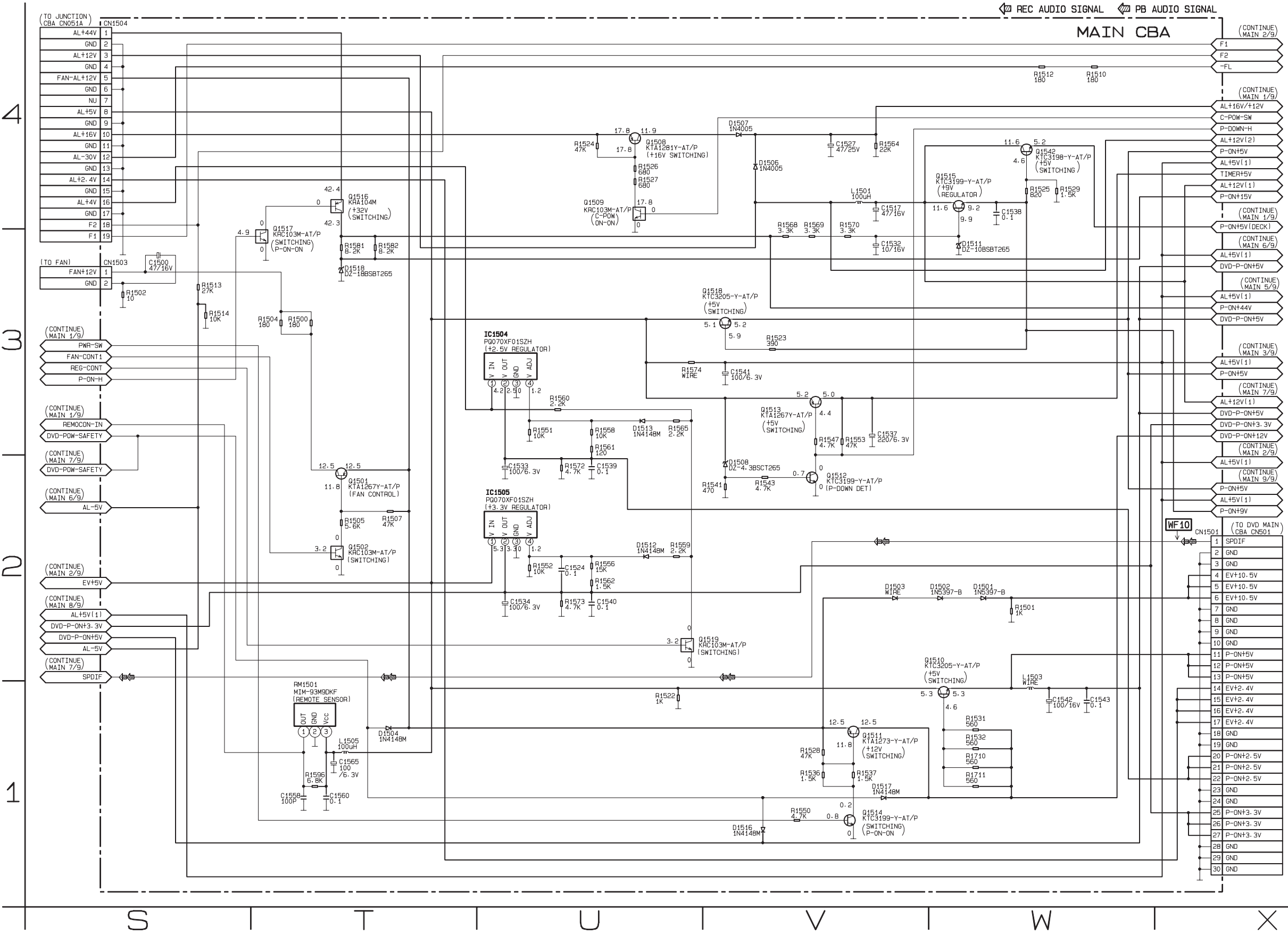
MODEL	MARK
DRV-A2621	A
DRV-A2677	B
DRV-A2631	C
DRV-B2737	D

Main 2/9, Power SW, Function & Sensor Schematic Diagram < VCR Section >



The diagram is a detailed Main CBA (Control Board Assembly) circuit for a VCR. It features a grid system with columns labeled M through R and rows labeled 1 through 4. The circuit includes numerous components such as resistors (R321, R323, R324, R331, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1013, R1014, R1015, R1016, R1017, R1018, R1019, R1020, R1021, R1022, R1023, R1024, R1025, R1026, R1027, R1028, R1029, R1030, R1031, R1032, R1033, R1034, R1035, R1036, R1037, R1038, R1039, R1040, R1041, R1042, R1043, R1044, R1045, R1046, R1047, R1048, R1049, R1050, R1051, R1052, R1053, R1054, R1055, R1056, R1057, R1058, R1059, R1060, R1061, R1062, R1063, R1064, R1065, R1066, R1067, R1068, R1069, R1070, R1071, R1072, R1073, R1074, R1075, R1076, R1077, R1078, R1079, R1080, R1081, R1082, R1083, R1084, R1085, R1086, R1087, R1088, R1089, R1090, R1091, R1092, R1093, R1094, R1095, R1096, R1097, R1098, R1099, R1100, R1101, R1102, R1103, R1104, R1105, R1106, R11

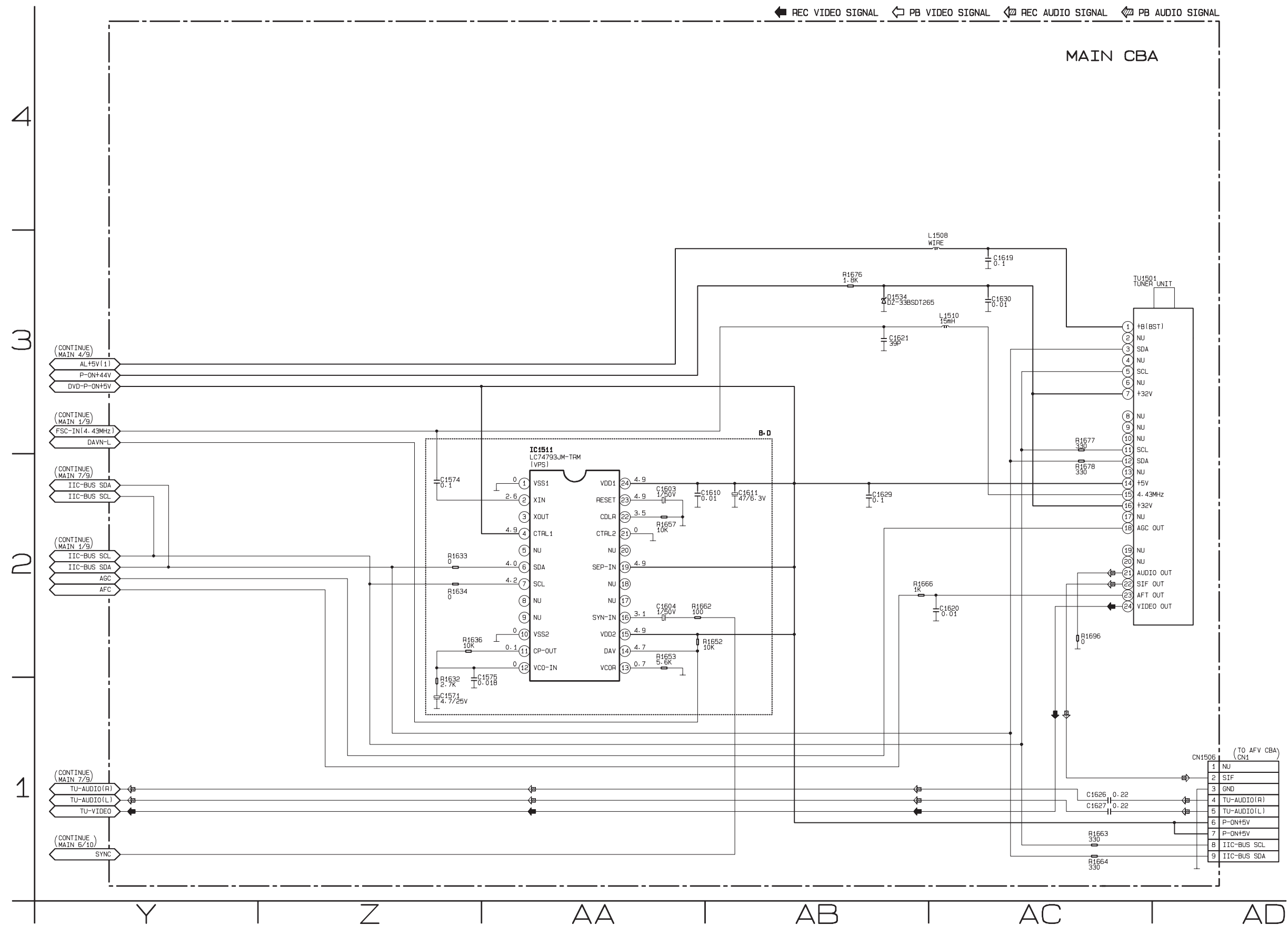
Main 4/9 Schematic Diagram < VCR Section >



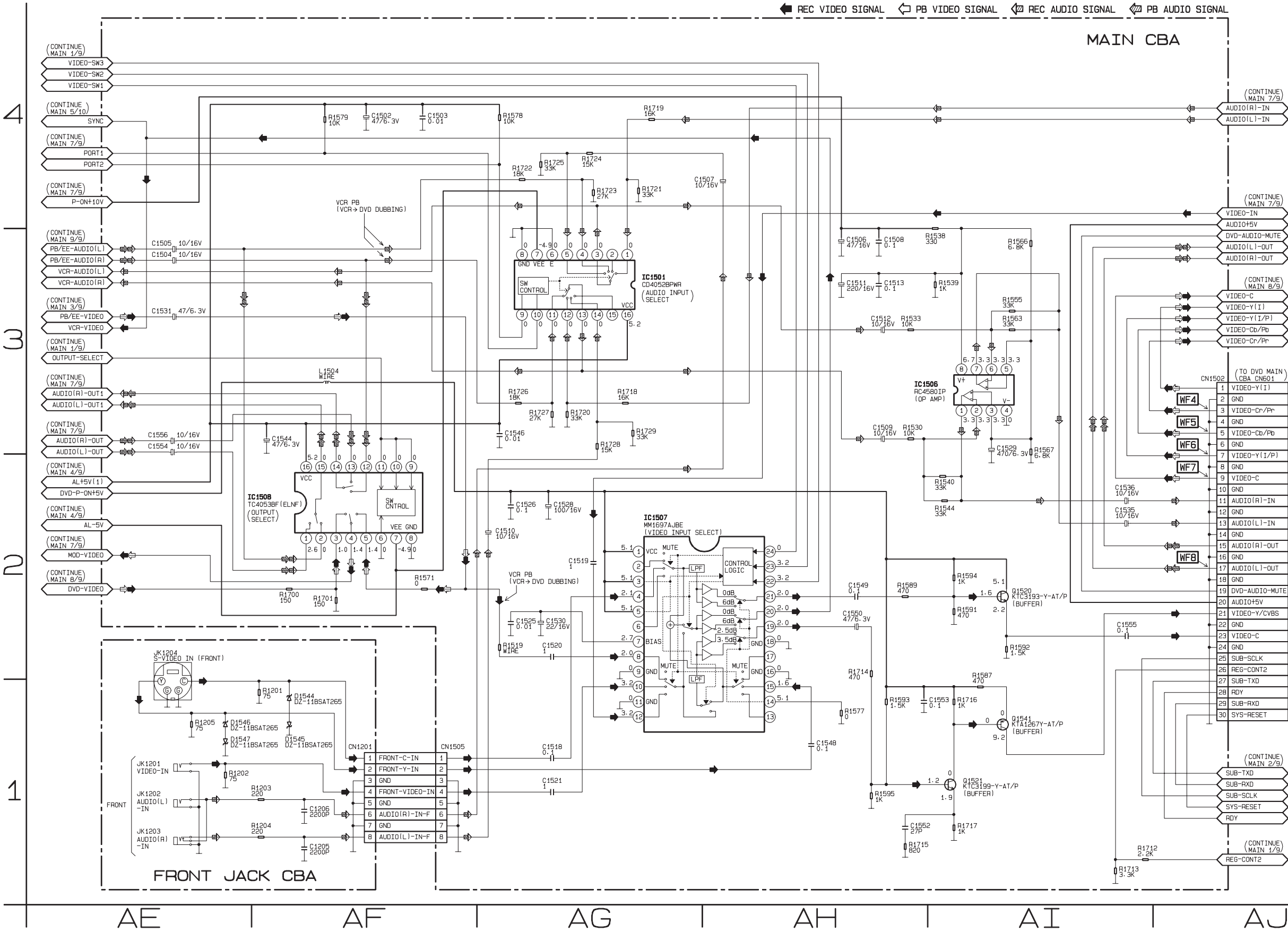
Main 5/9 Schematic Diagram < VCR Section >

Comparison Chart of Models and Marks

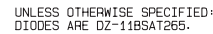
MODEL	MARK
DRV-A2621	A
DRV-A2677	B
DRV-A2631	C
DRV-B2737	D



Main 6/9 & Front Jack Schematic Diagram < VCR Section >

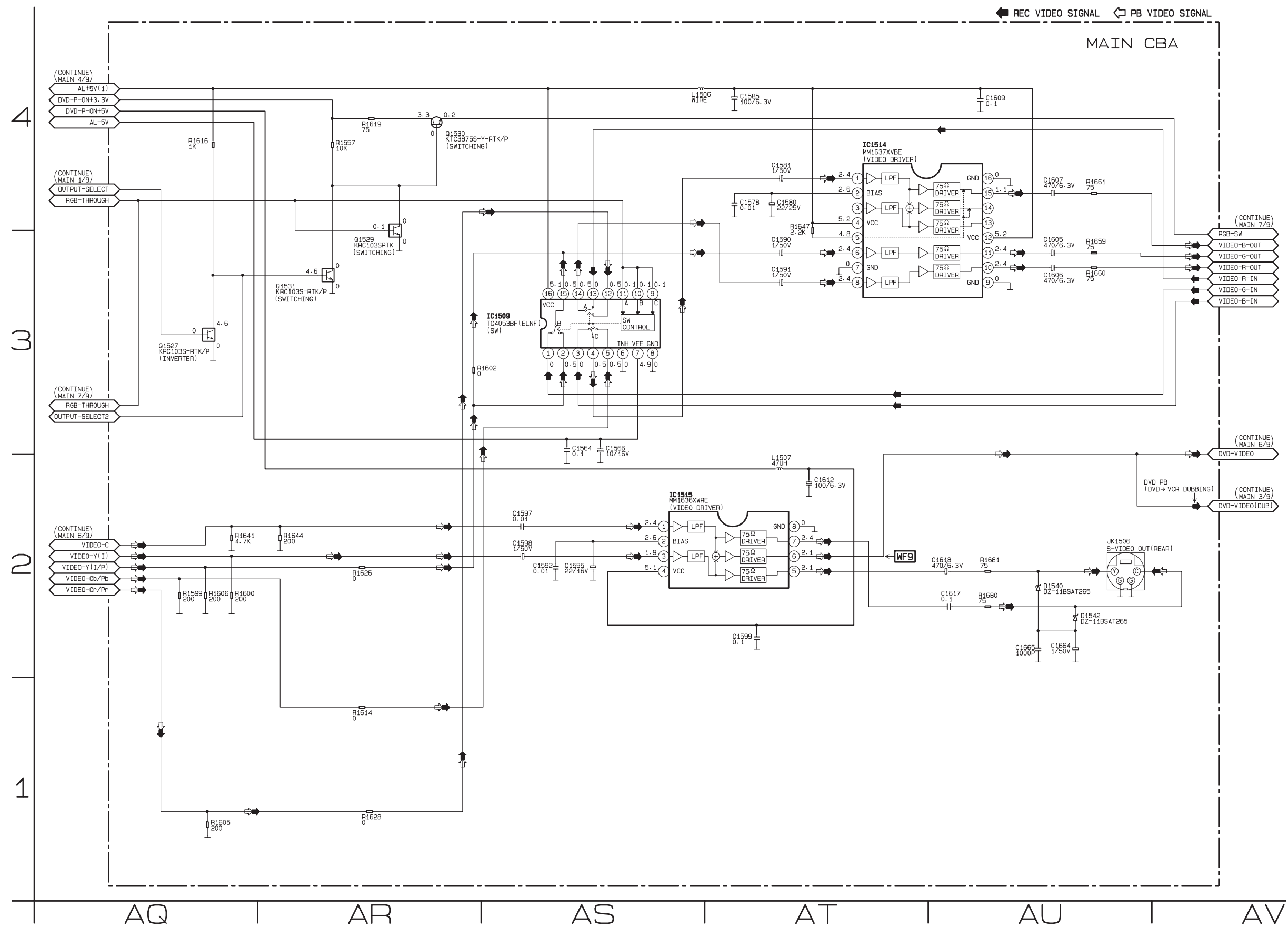


4
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1

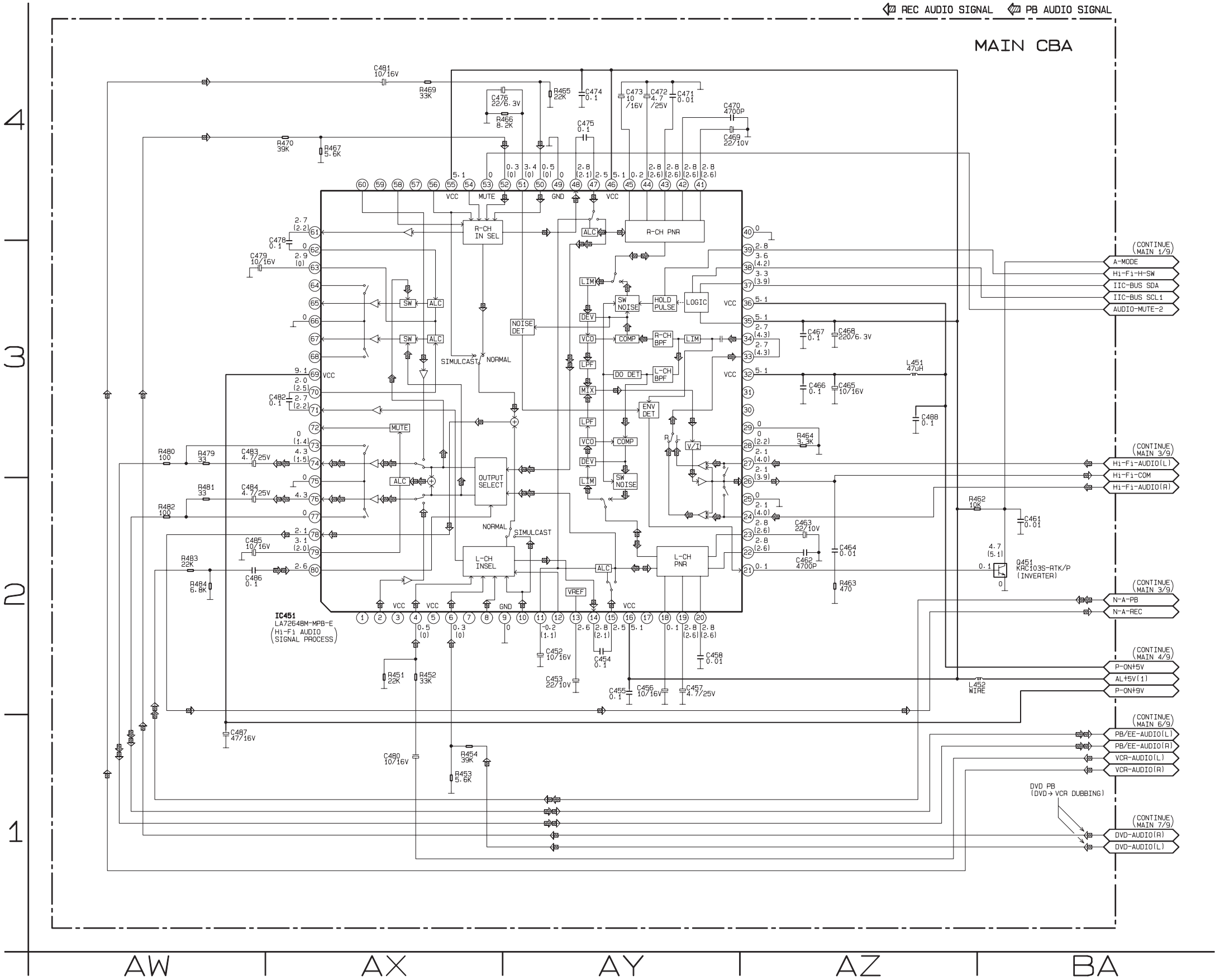


MODEL	MARK
DRV-A2621	A
DRV-A2677	B
DRV-A2631	C
DRV-B2737	D

Main 8/9 Schematic Diagram < VCR Section >



Main 9/9 Schematic Diagram < VCR Section >

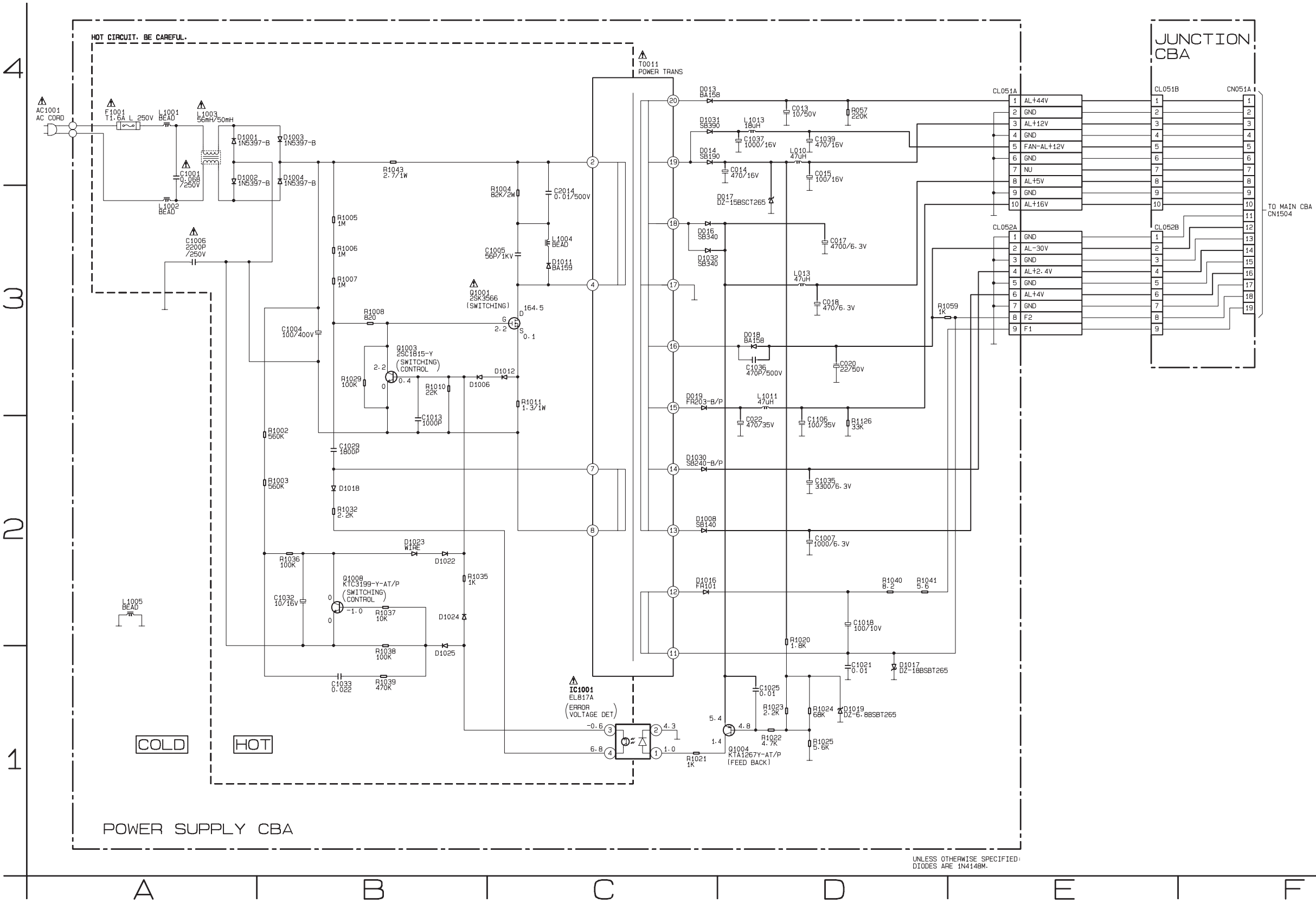


Power Supply & Junction Schematic Diagram < VCR Section >

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !
For continued protection against fire hazard,
replace only with the same type fuse.

NOTE:
The voltage for parts in hot circuit is measured using
hot GND as a common terminal.



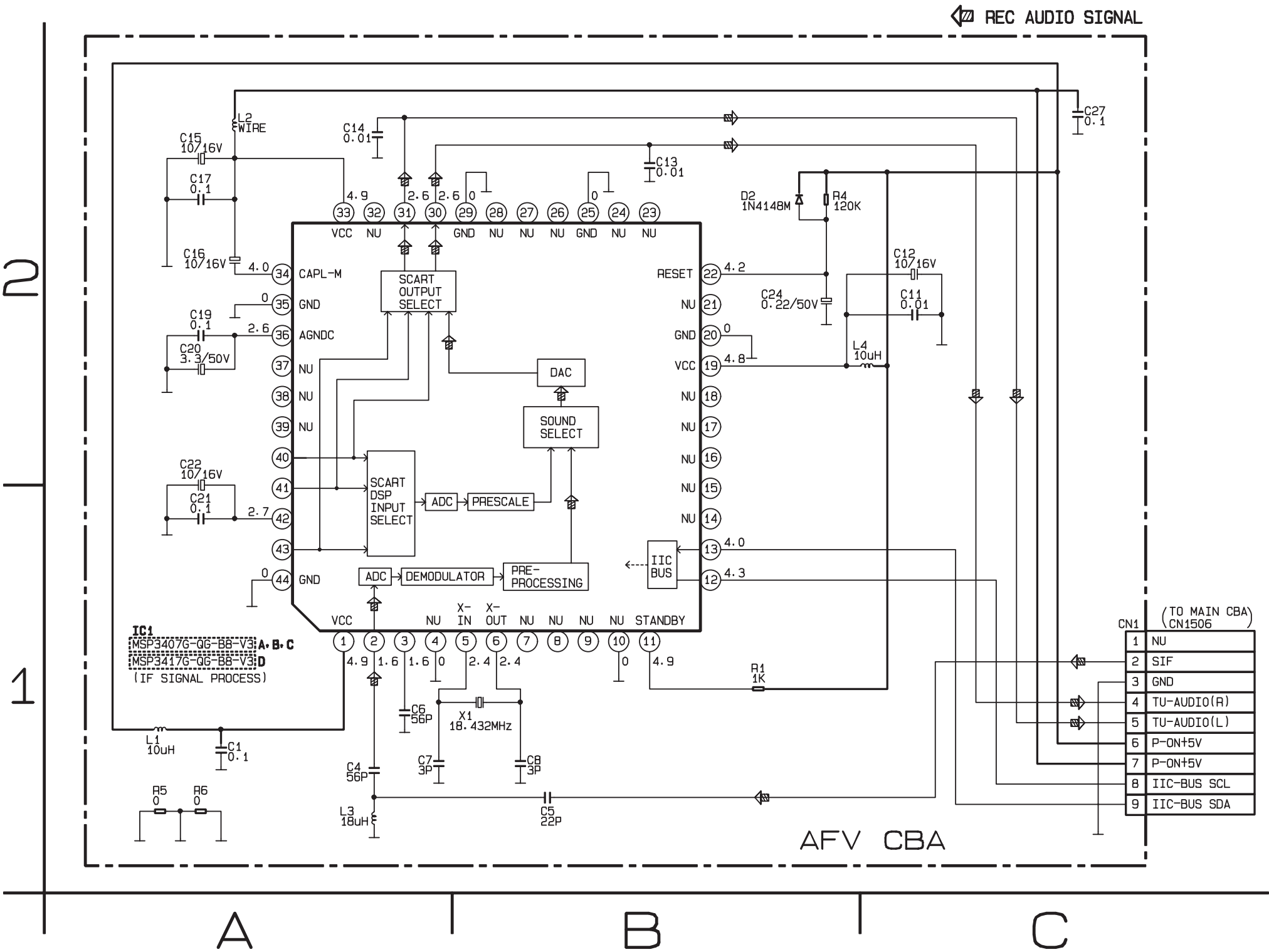
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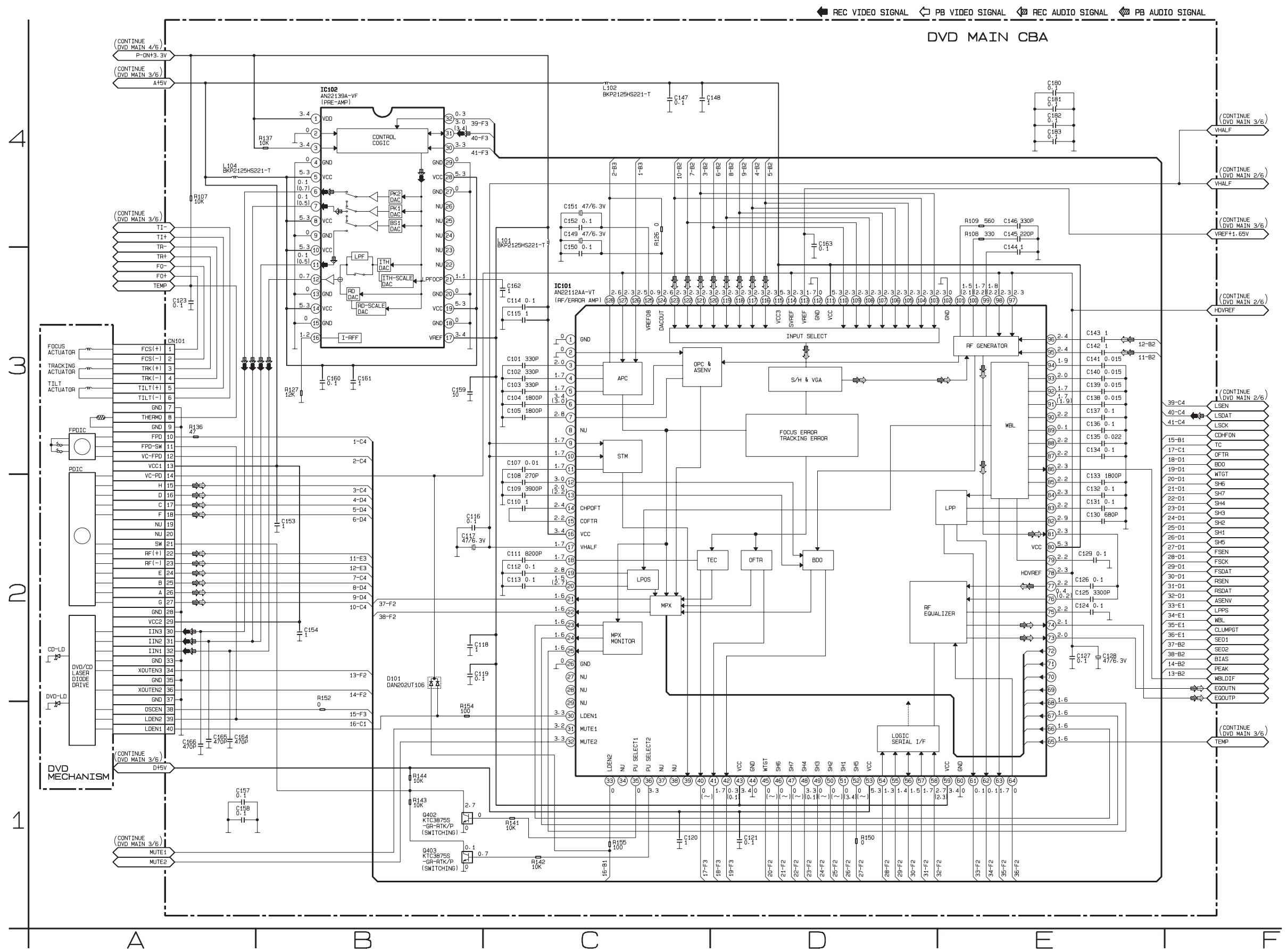
AFV Schematic Diagram < VCR Section >

Comparison Chart of Models and Marks

MODEL	MARK
DRV-A2621	A
DRV-A2677	B
DRV-A2631	C
DRV-B2737	D



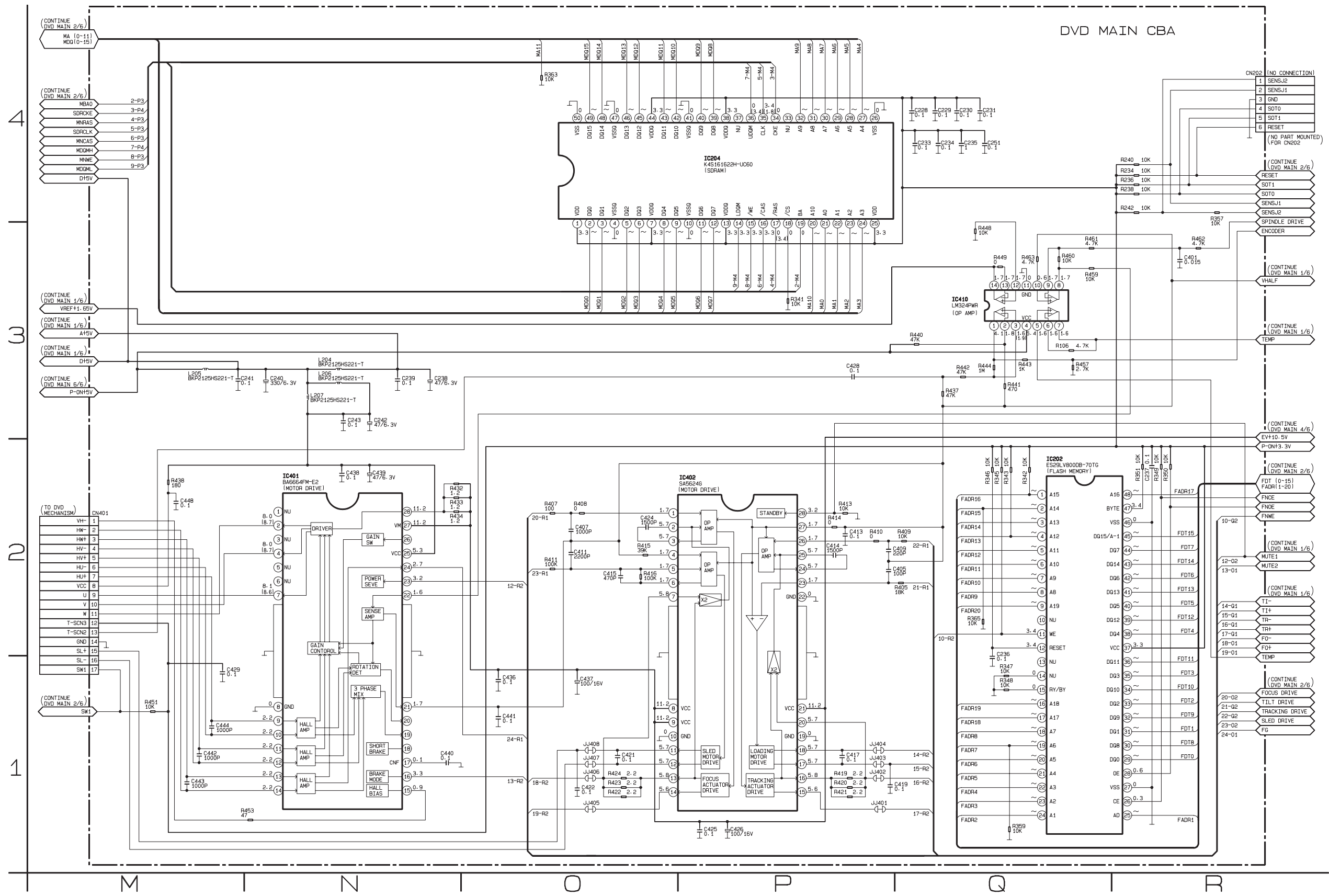
DVD Main 1/6 Schematic Diagram < DVD Section >



A vertical axis with tick marks and labels 1, 2, 3, and 4.

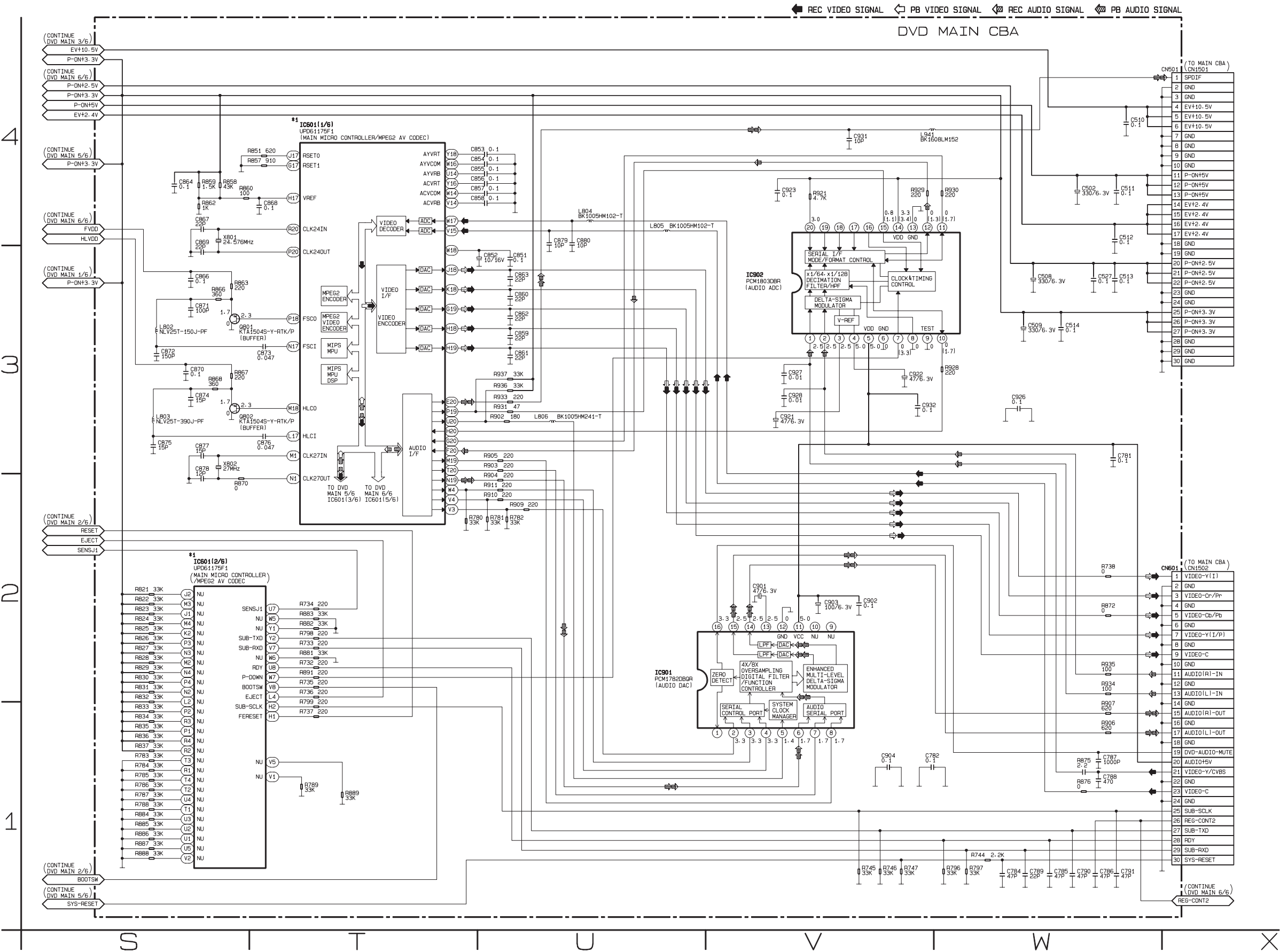


DVD Main 3/6 Schematic Diagram < DVD Section >



DVD Main 4/6 Schematic Diagram < DVD Section >

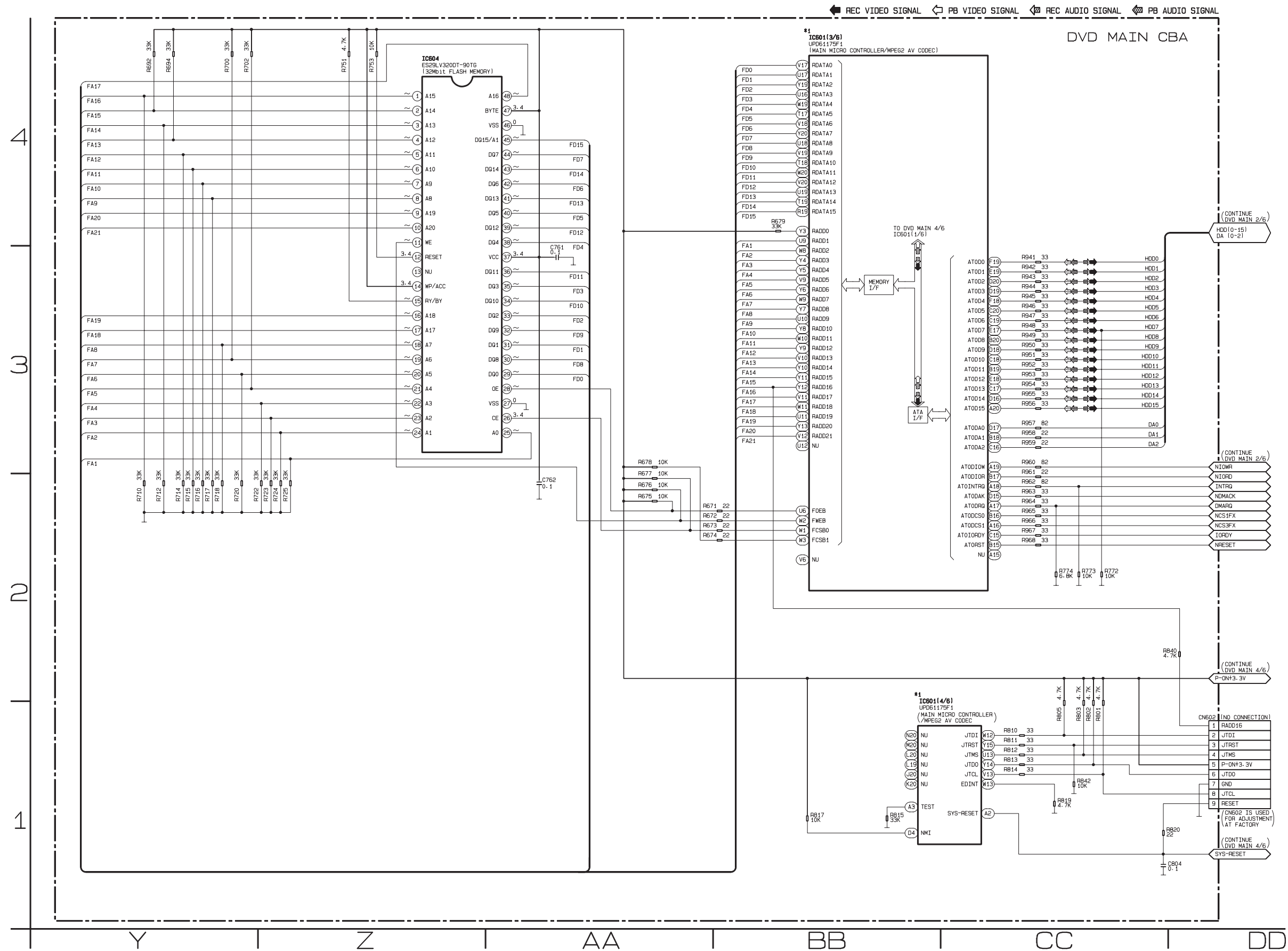
- NOTE:
- 1. The order of pins shown in this diagram is different from that of actual IC601.
 - 2. IC601 is divided into six and shown as IC601 (1/6) ~ IC601 (6/6) in this DVD Main Schematic Diagram Section.



DVD Main 5/6 Schematic Diagram < DVD Section >

NOTE:

1. The order of pins shown in this diagram is different from that of actual IC601.
2. IC601 is divided into six and shown as IC601 (1/6) ~ IC601 (6/6) in this DVD Main Schematic Diagram Section.

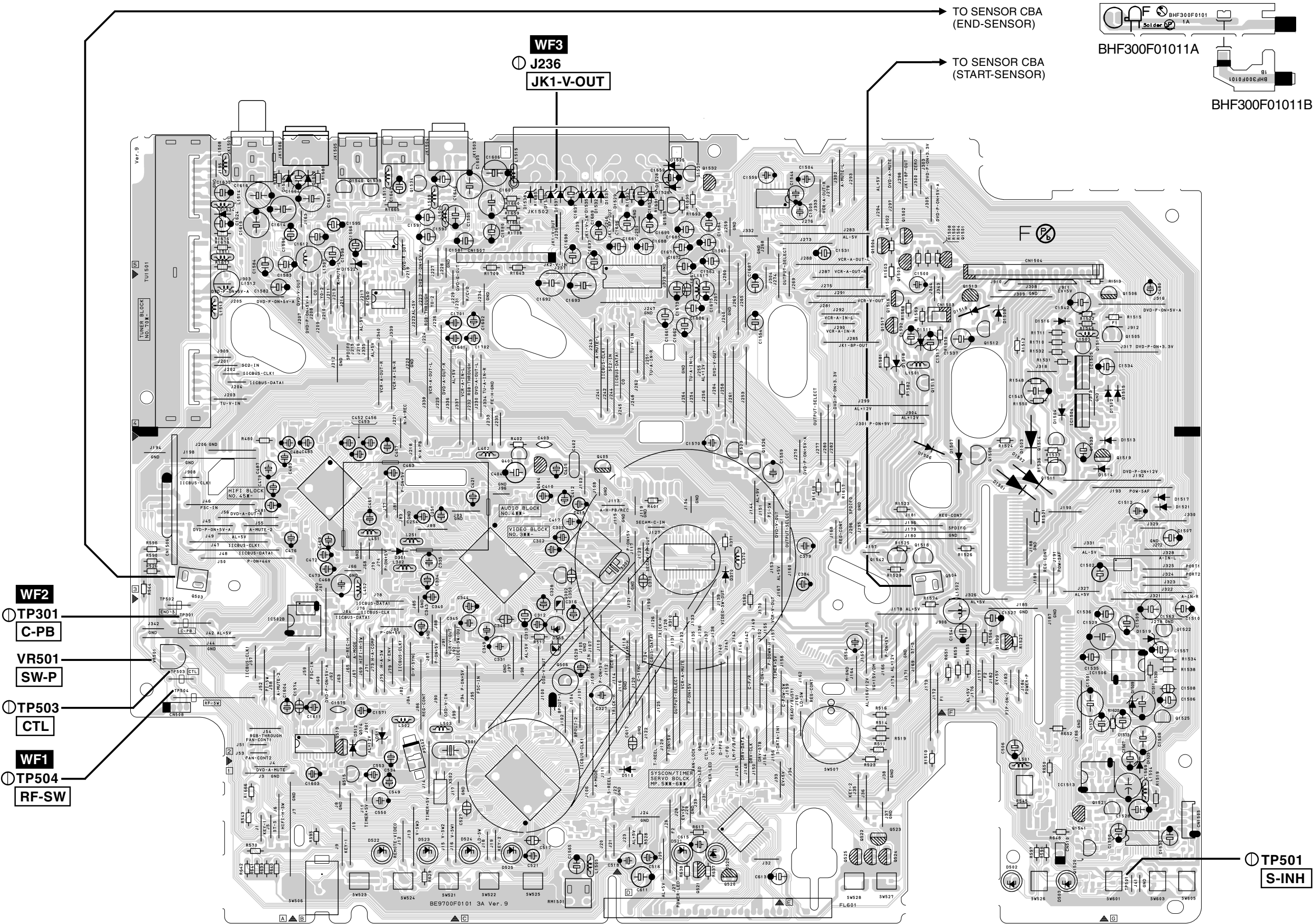
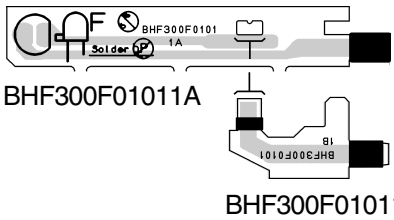


The schematic diagram illustrates the DVD MAIN CBA (Main Control Board) circuit. It features several key components and their interconnections:

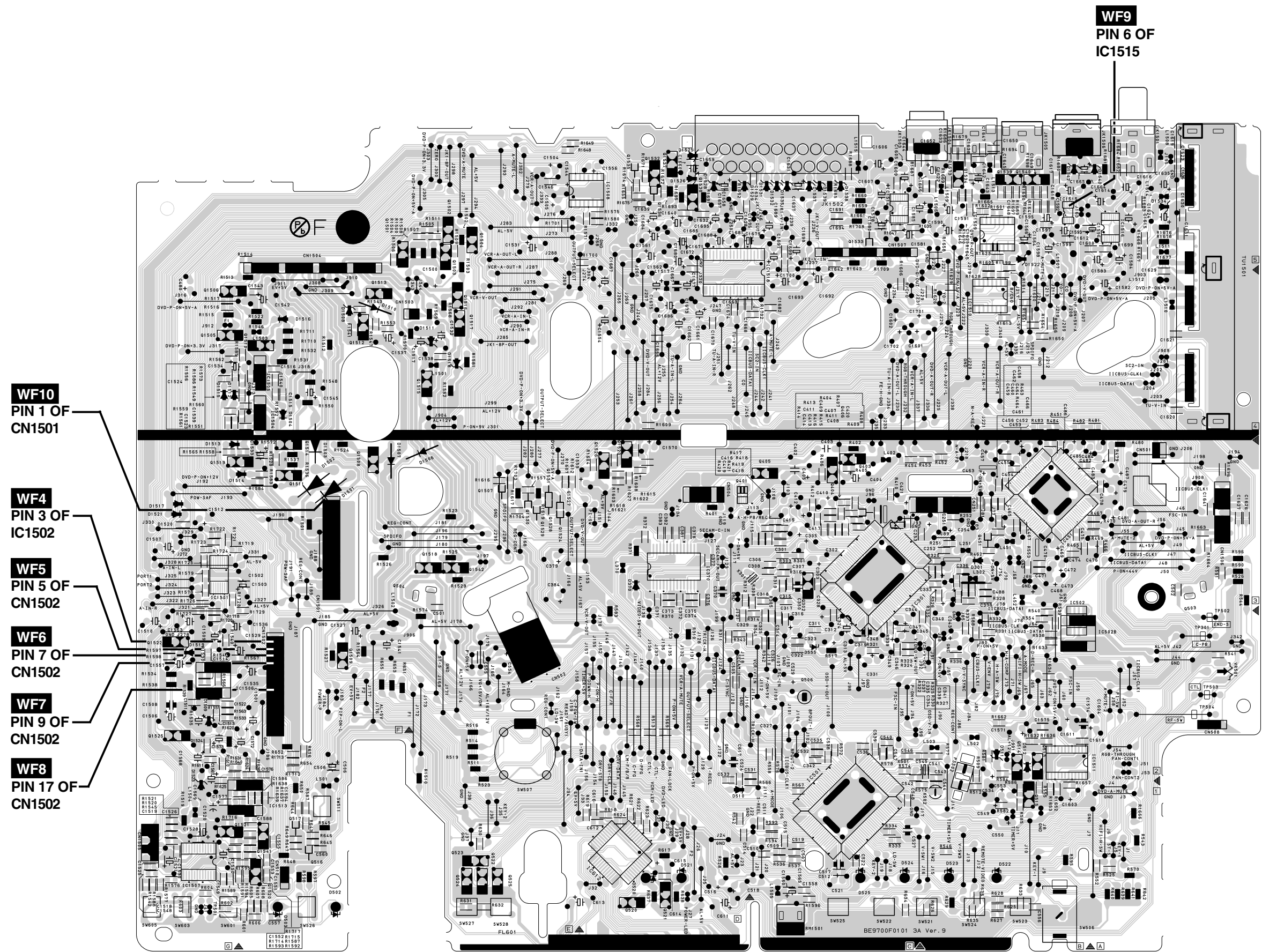
- IC601 (5/6):** UPD61175F1 (MAIN MICRO CONTROLLER/MPEG2 AV CODEC). This is the central microcontroller, connected to various data and address lines (DQ0-DQ31, DQ00-DQ09, DQ10-DQ14, DQ15-DQ19, DQ20-DQ29, DQ30-DQ31) and control signals (DADRCLK, DORCLK, DCKE, DCSB, DWEB, DCASB, DRASB, DQGS2, DQGS1, DQGS0, DQGM3, DQGM2, DQGM1, DQGM0, DORBA1, DORBA0, DVREF).
- IC602 (6/6):** UPD61175F1 (MAIN MICRO CONTROLLER/MPEG2 AV CODEC). This is another instance of the microcontroller, connected to various data and address lines (DQ0-DQ31, DQ00-DQ09, DQ10-DQ14, DQ15-DQ19, DQ20-DQ29, DQ30-DQ31) and control signals (DADRCLK, DORCLK, DCKE, DCSB, DWEB, DCASB, DRASB, DQGS2, DQGS1, DQGS0, DQGM3, DQGM2, DQGM1, DQGM0, DORBA1, DORBA0, DVREF).
- IC603 (6/6):** UPD61175F1 (MAIN MICRO CONTROLLER/MPEG2 AV CODEC). This is a third instance of the microcontroller, connected to various data and address lines (DQ0-DQ31, DQ00-DQ09, DQ10-DQ14, DQ15-DQ19, DQ20-DQ29, DQ30-DQ31) and control signals (DADRCLK, DORCLK, DCKE, DCSB, DWEB, DCASB, DRASB, DQGS2, DQGS1, DQGS0, DQGM3, DQGM2, DQGM1, DQGM0, DORBA1, DORBA0, DVREF).
- IC604 (1.5V REGULATOR):** P015EZ1H2PH (1.5V REGULATOR). This is a 1.5V regulator, connected to VDD, VSS, and a feedback network (R510, R505, C506, C505, C504, C503).
- Resistors:** Various resistors are used for pull-up, pull-down, and feedback, including R634-R639, R640-R649, R650-R659, R660-R669, R670-R679, R680-R689, R690-R699, R700-R709, R710-R719, R720-R729, R730-R739, R740-R749, R750-R759, R760-R769, R770-R779, R780-R789, R790-R799, R800-R809, R810-R819, R820-R829, R830-R839, R840-R849, R850-R859, R860-R869, R870-R879, R880-R889, R890-R899, R900-R909, R910-R919, R920-R929, R930-R939, R940-R949, R950-R959, R960-R969, R970-R979, R980-R989, R990-R999.
- Capacitors:** Various capacitors are used for decoupling and timing, including C738, C737, C736, C735, C734, C733, C732, C731, C730, C729, C728, C727, C726, C725, C724, C723, C722, C721, C720, C719, C718, C717, C716, C715, C714, C713, C712, C711, C710, C709, C708, C707, C706, C705, C704, C703, C702, C701, C700, C699, C698, C697, C696, C695, C694, C693, C692, C691, C690, C689, C688, C687, C686, C685, C684, C683, C682, C681, C680, C679, C678, C677, C676, C675, C674, C673, C672, C671, C670, C669, C668, C667, C666, C665, C664, C663, C662, C661, C660, C659, C658, C657, C656, C655, C654, C653, C652, C651, C650, C649, C648, C647, C646, C645, C644, C643, C642, C641, C640, C639, C638, C637, C636, C635, C634, C633, C632, C631, C630, C629, C628, C627, C626, C625, C624, C623, C622, C621, C620, C619, C618, C617, C616, C615, C614, C613, C612, C611, C610, C609, C608, C607, C606, C605, C604, C603, C602, C601, C600, C599, C598, C597, C596, C595, C594, C593, C592, C591, C590, C589, C588, C587, C586, C585, C584, C583, C582, C581, C580, C579, C578, C577, C576, C575, C574, C573, C572, C571, C570, C569, C568, C567, C566, C565, C564, C563, C562, C561, C560, C559, C558, C557, C556, C555, C554, C553, C552, C551, C550, C549, C548, C547, C546, C545, C544, C543, C542, C541, C540, C539, C538, C537, C536, C535, C534, C533, C532, C531, C530, C529, C528, C527, C526, C525, C524, C523, C522, C521, C520, C519, C518, C517, C516, C515, C514, C513, C512, C511, C510, C509, C508, C507, C506, C505, C504, C503, C502, C501, C500, C499, C498, C497, C496, C495, C494, C493, C492, C491, C490, C489, C488, C487, C486, C485, C484, C483, C482, C481, C480, C479, C478, C477, C476, C475, C474, C473, C472, C471, C470, C469, C468, C467, C466, C465, C464, C463, C462, C461, C460, C459, C458, C457, C456, C455, C454, C453, C452, C451, C450, C449, C448, C447, C446, C445, C444, C443, C442, C441, C440, C439, C438, C437, C436, C435, C434, C433, C432, C431, C430, C429, C428, C427, C426, C425, C424, C423, C422, C421, C420, C419, C418, C417, C416, C415, C414, C413, C412, C411, C410, C409, C408, C407, C406, C405, C404, C403, C402, C401, C400, C399, C398, C397, C396, C395, C394, C393, C392, C391, C390, C389, C388, C387, C386, C385, C384, C383, C382, C381, C380, C379, C378, C377, C376, C375, C374, C373, C372, C371, C370, C369, C368, C367, C366, C365, C364, C363, C362, C361, C360, C359, C358, C357, C356, C355, C354, C353, C352, C351, C350, C349, C348, C347, C346, C345, C344, C343, C342, C341, C340, C339, C338, C337, C336, C335, C334, C333, C332, C331, C330, C329, C328, C327, C326, C325, C324, C323, C322, C321, C320, C319, C318, C317, C316, C315, C314, C313, C312, C311, C310, C309, C308, C307, C306, C305, C304, C303, C302, C301, C300, C299, C298, C297, C296, C295, C294, C293, C292, C291, C290, C289, C288, C287, C286, C285, C284, C283, C282, C281, C280, C279, C278, C277, C276, C275, C274, C273, C272, C271, C270, C269, C268, C267, C266, C265, C264, C263, C262, C261, C260, C259, C258, C257, C256, C255, C254, C253, C252, C251, C250, C249, C248, C247, C246, C245, C244, C243, C242, C241, C240, C239, C238, C237, C236, C235, C234, C233, C232, C231, C230, C229, C228, C227, C226, C225, C224, C223, C222, C221, C220, C219, C218, C217, C216, C215, C214, C213, C212, C211, C210, C209, C208, C207, C206, C205, C204, C203, C202, C201, C200, C199, C198, C197, C196, C195, C194, C193, C192, C191, C190, C189, C188, C187, C186, C185, C184, C183, C182, C181, C180, C179, C178, C177, C176, C175, C174, C173, C172, C171, C170, C169, C168, C167, C166, C165, C164, C163, C162, C161, C160, C159, C158, C157, C156, C155, C154, C153, C152, C151, C150, C149, C148, C147, C146, C145, C144, C143, C142,

Main CBA Top View

Sensor CBA Top View



Main CBA Bottom View

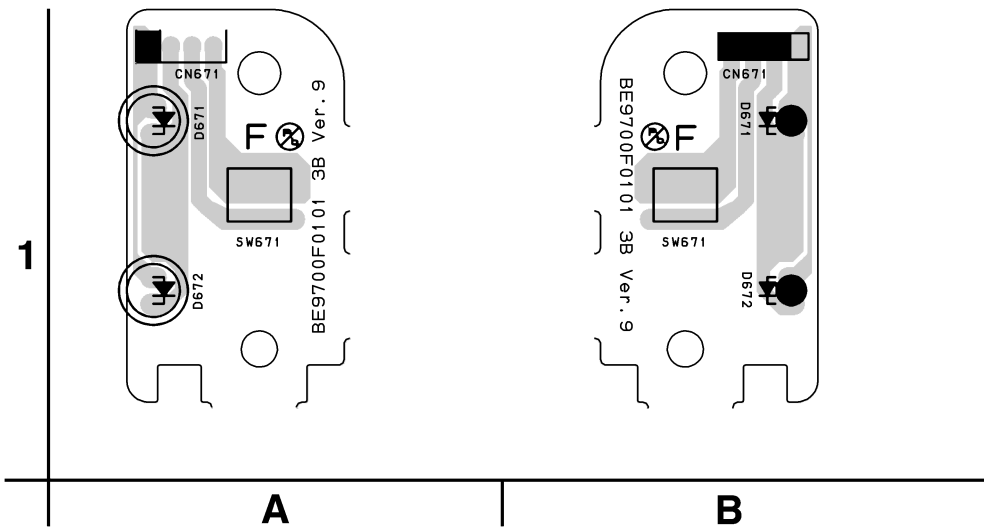


Power SW CBA Top View

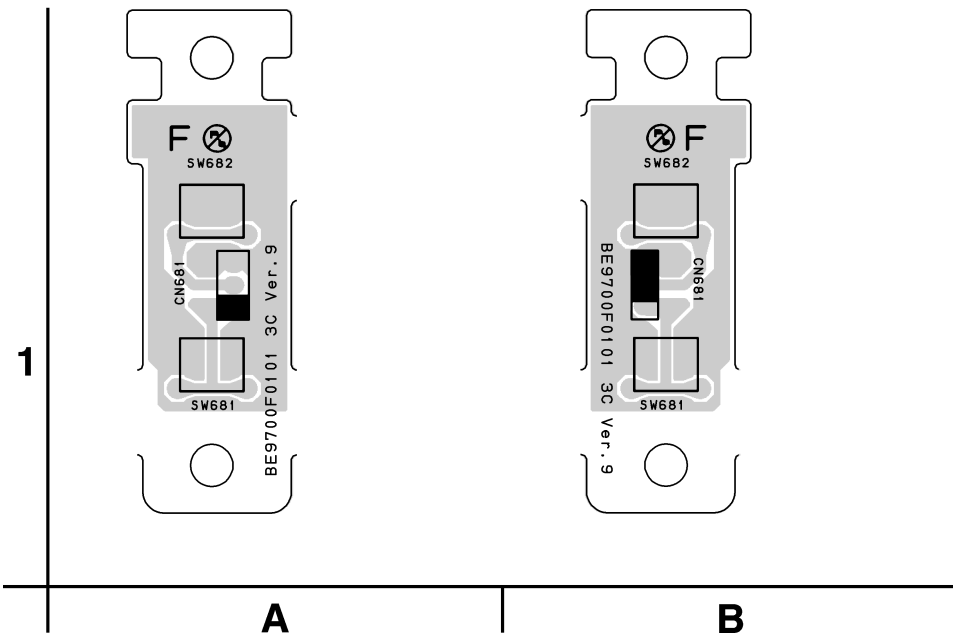
Power SW CBA Bottom View

Function CBA Top View

Function CBA Bottom View



BE9700F01013B



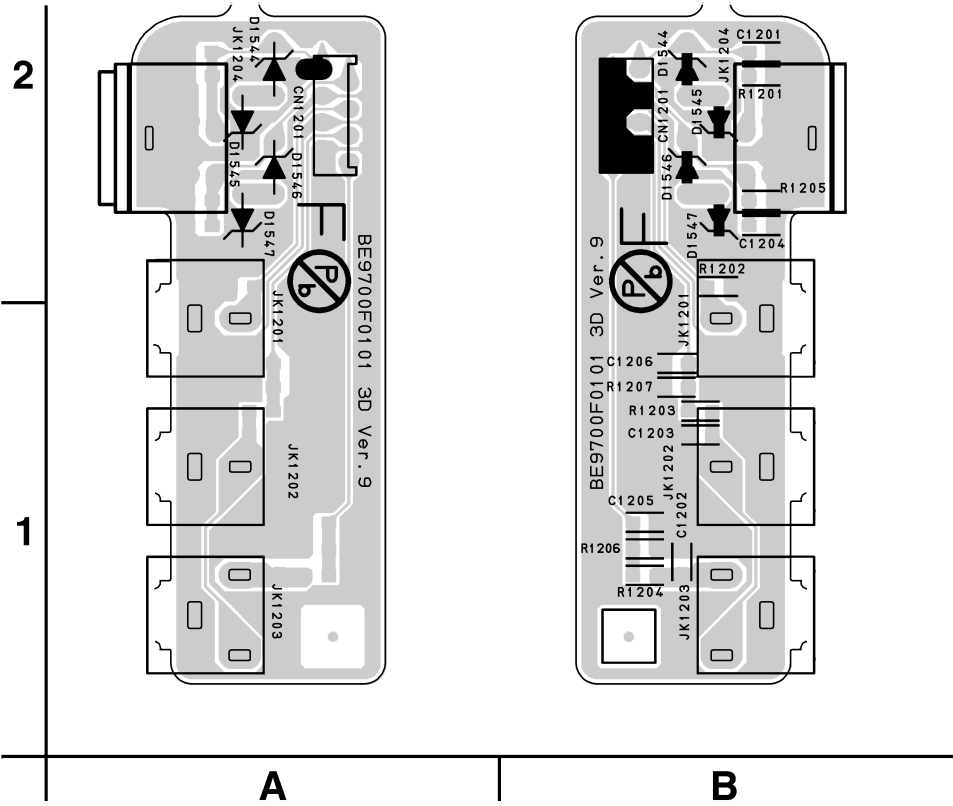
BE9700F01013C

Front Jack CBA Top View

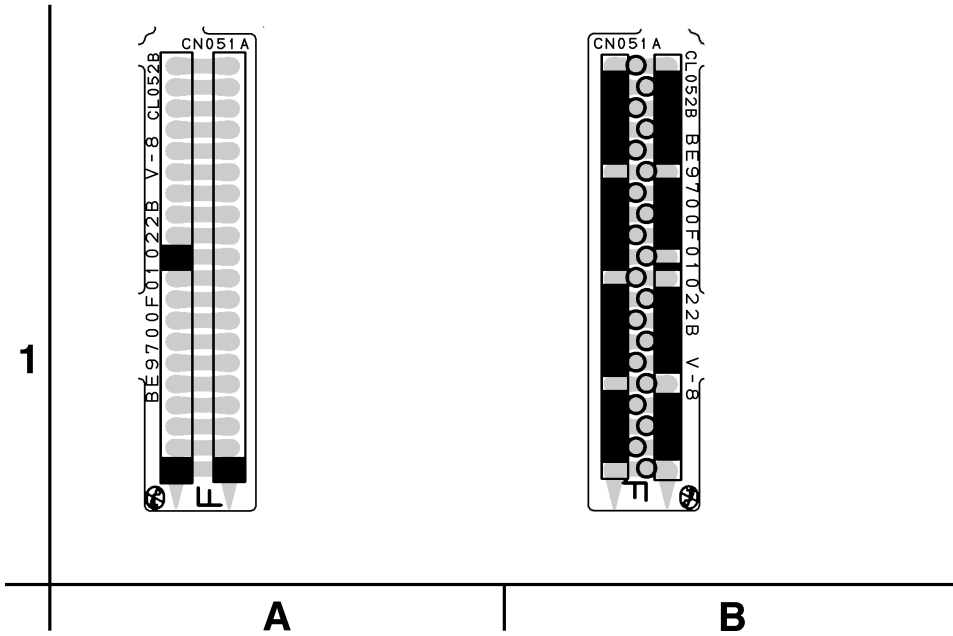
Front Jack CBA Bottom View

Junction CBA Top View

Junction CBA Bottom View



BE9700F01013D



BE9700F01022B

Power Supply CBA Top View

CAUTION !

For continued protection against fire hazard,
replace only with the same type fuse.

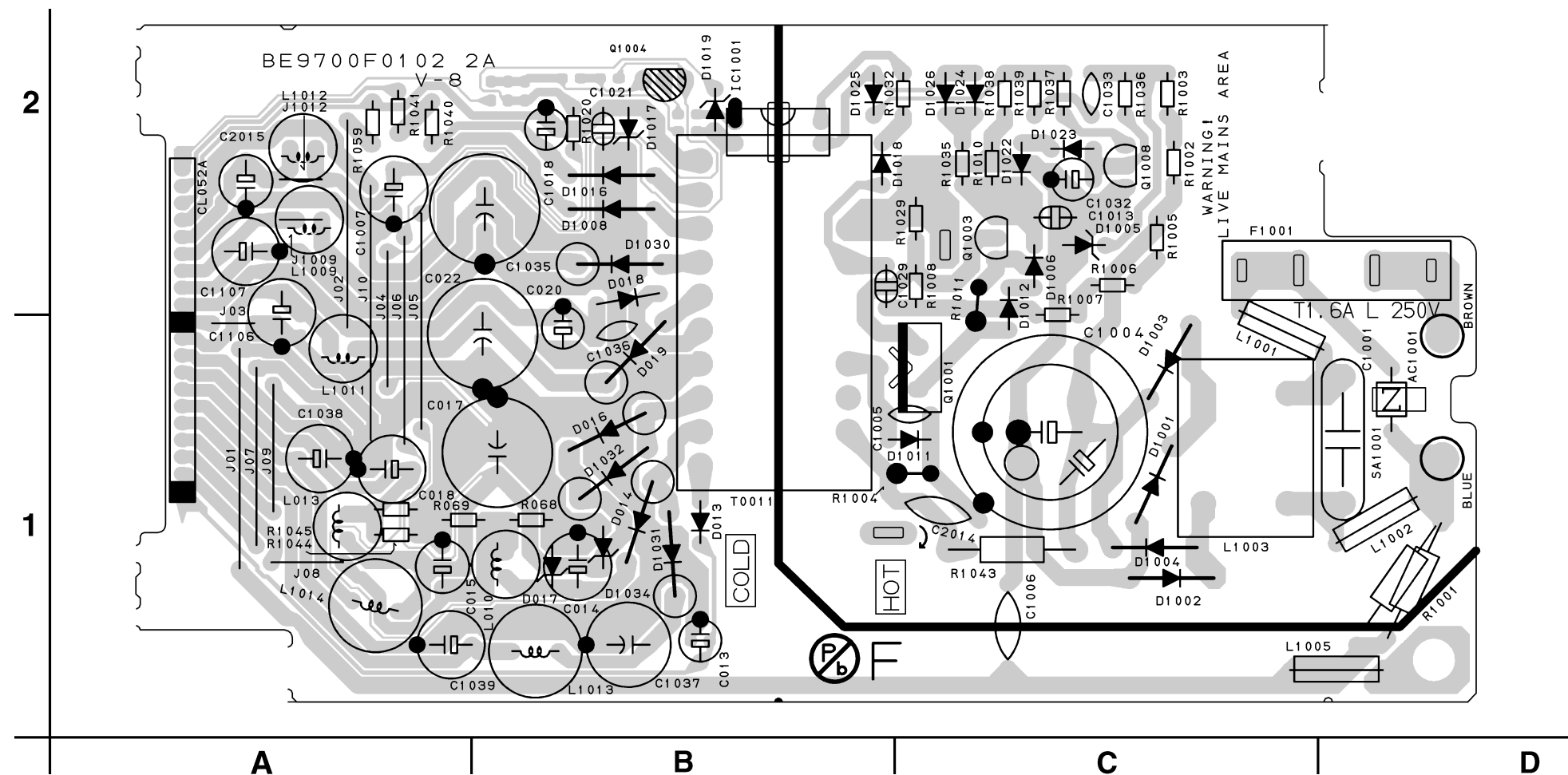
CAUTION !

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.

NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.



Power Supply CBA Bottom View

CAUTION !

For continued protection against fire hazard,
replace only with the same type fuse.

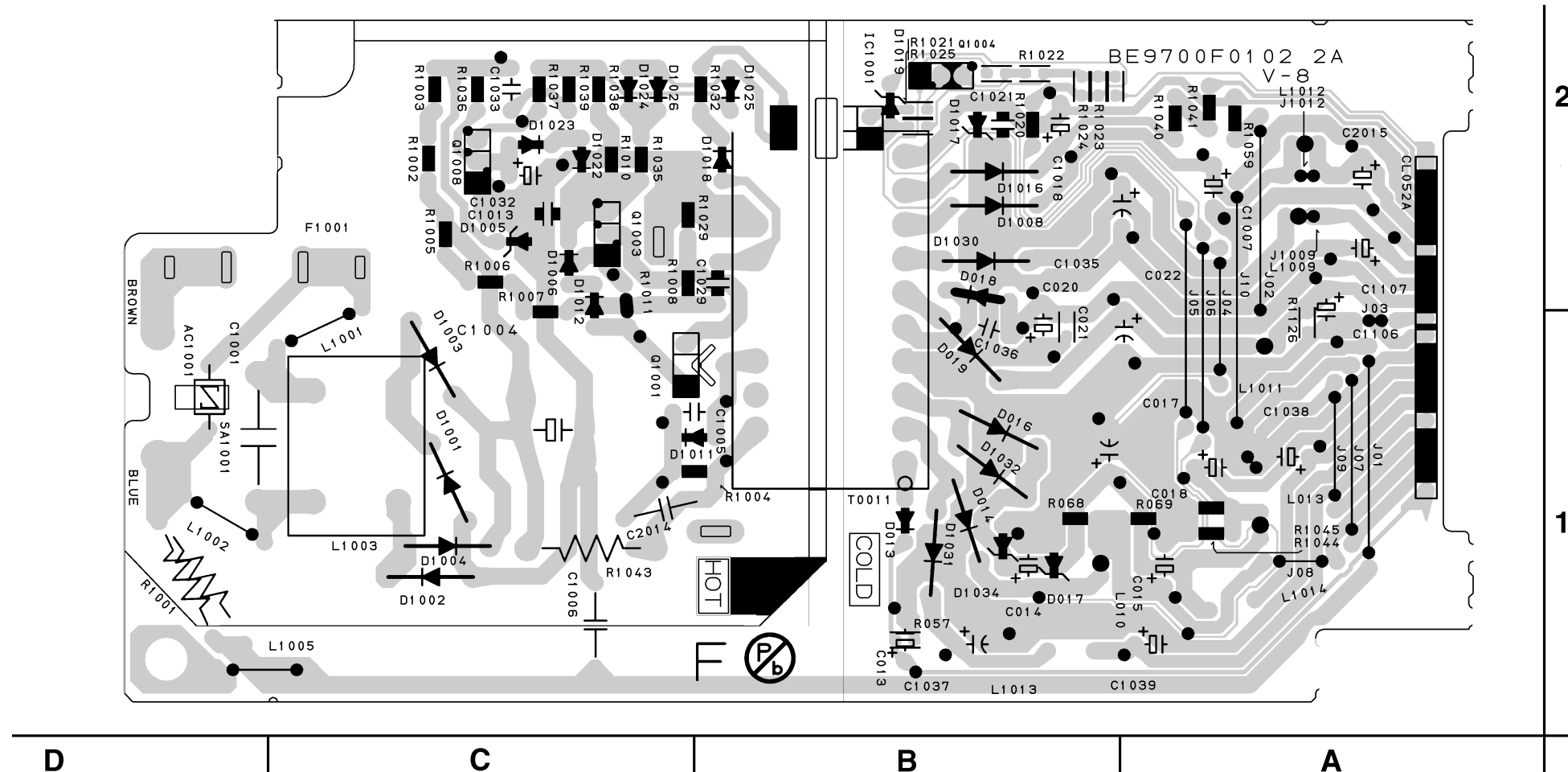
CAUTION !

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.

NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.



AFV CBA Top View

PCB layout of the BE6800F0109 microcontroller. The layout shows the microcontroller (IC1) in the center, surrounded by various components including capacitors (C10, C12, C16, C20, C22, C24, C27), inductors (L1, L2, L3, L4), resistors (R1, R2), and connectors (J1, J2, J3, J5, J6). A crystal (X1) is also present. The layout is labeled with component values and designators.

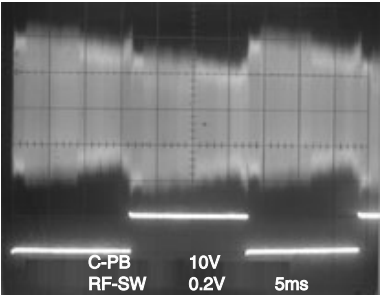
1-12-26

WAVEFORMS

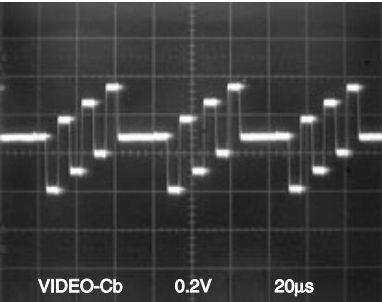
NOTE:
Input: COLOR BAR SIGNAL (WITH 1KHz AUDIO SIGNAL)

WF2 UPPER TP301

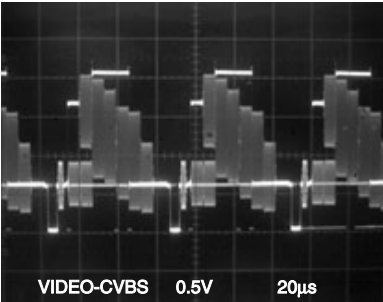
WF1 LOWER TP504



WF5 Pin 5 of CN1502

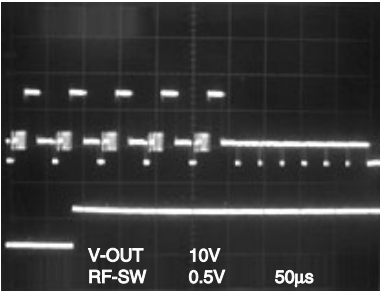


WF9 Pin 6 of IC1515

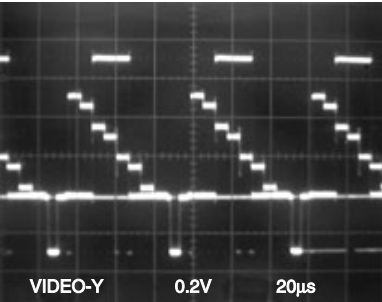


WF3 UPPER J236

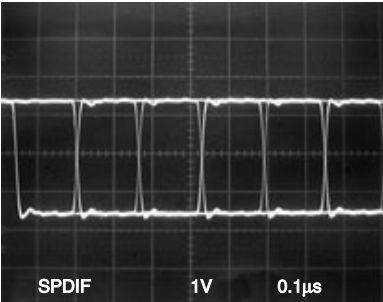
WF1 LOWER TP504



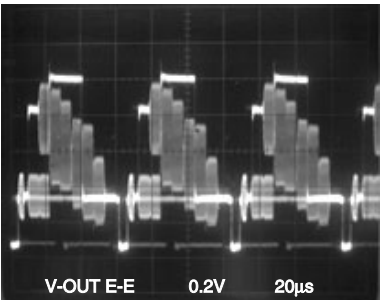
WF6 Pin 7 of CN1502



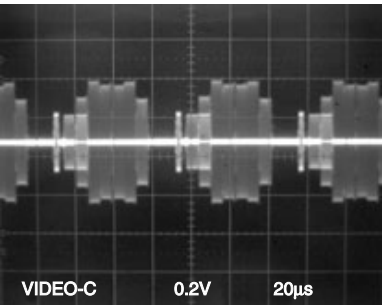
WF10 Pin 1 of CN1501



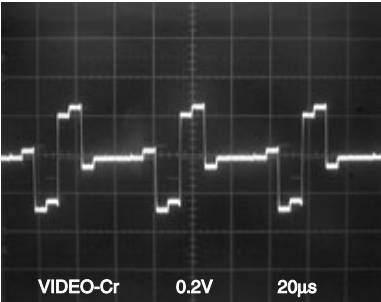
WF3 J236



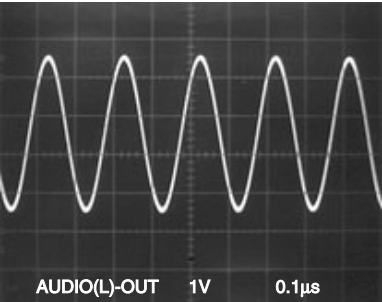
WF7 Pin 9 of CN1502



WF4 Pin 3 of CN1502



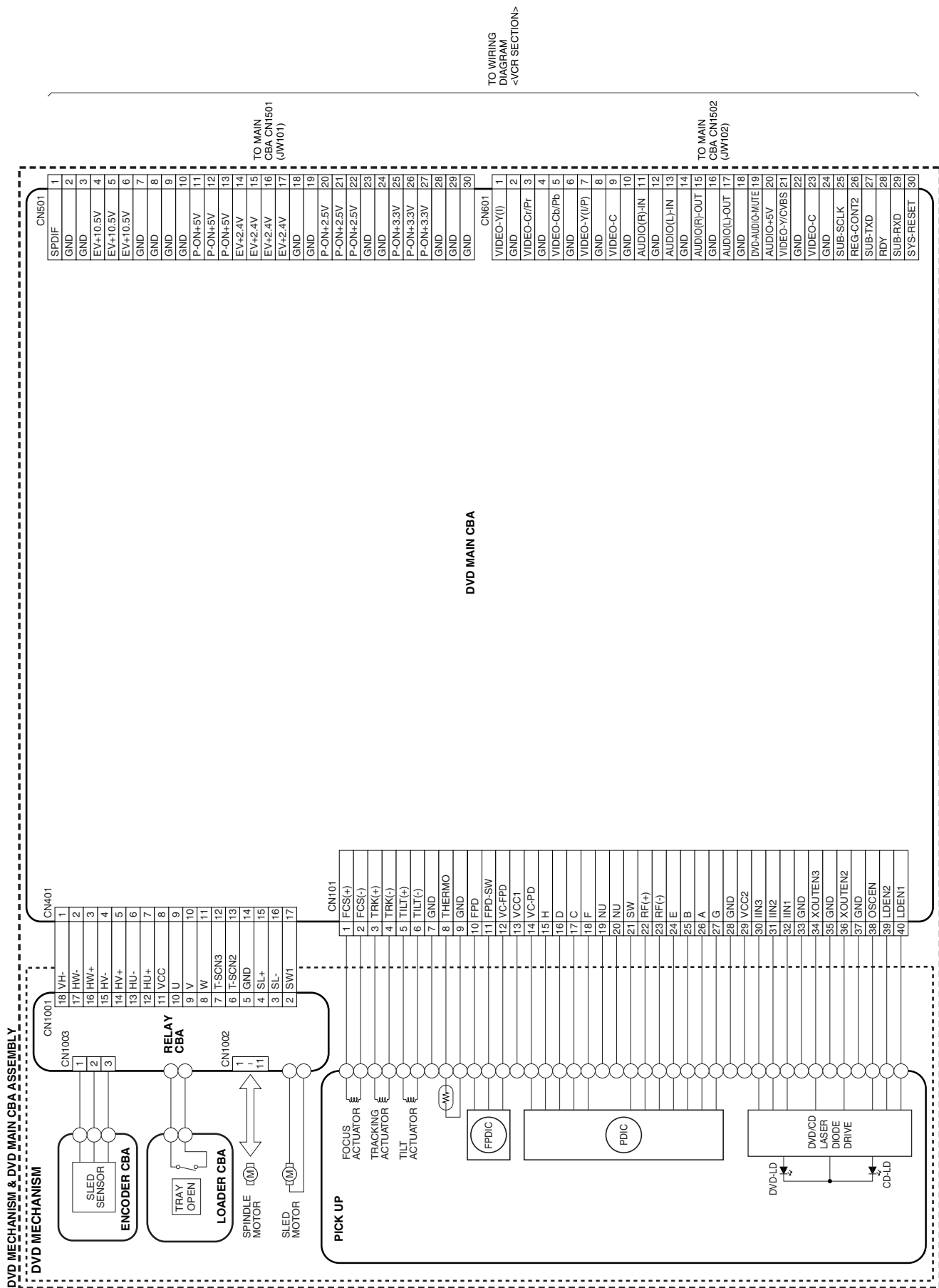
WF8 Pin 17 of CN1502



TO WIRING
DIAGRAM
<DVD SECTION>



WIRING DIAGRAM < DVD SECTION >



IC PIN FUNCTION DESCRIPTIONS

[VCR Section]

IC501(SERVO / SYSTEM CONTROL IC)

Pin No.	Mark	IN/ OUT	Signal Name	Function
1		IN	SC2-IN	Input Signal from Pin 8 of SCART2
2		IN	PG-DELAY	Video Head Switching Pulse Signal Adjusted Voltage
3		IN	DVD-POW-SAFETY	Abnormal Voltage Detection
4		IN	END-S	Tape End Position Detect Signal
5		IN	AFC	Automatic Frequency Control Signal
6		IN	V-ENV	Video Envelope Comparator Signal
7		IN	KEY-1	Key Scan Input Signal 1
8		IN	KEY-2	Key Scan Input Signal 2
9		IN	LD-SW	Deck Mode Position Detector Signal
10		IN	ST-S	Tape Start Position Detector Signal
11		OUT	FAN-CONT1	Fan Motor Control Signal
12		-	NU	Not Used
13		OUT	D-V- SYNC	Dummy V-sync Output
14		IN	REMOCON-IN	Remote Control Sensor
15		OUT	C-ROTA	Color Phase Rotary Changeover Signal
16		OUT	H-A-SW	Video Head Amp Switching Pulse
17		IN	H-A-COMP	Head Amp Comparator Signal
18		OUT	RF-SW	Video Head Switching Pulse
19		OUT	Hi-Fi-H-SW	HiFi Audio Head Switching Pulse
20		-	NU	Not Used
21		-	NU	Not Used
22		OUT	VIDEO-SW1	Video Input Select Signal
23		OUT	VIDEO-SW2	Video Input Select Signal
24		OUT	VIDEO-SW3	Video Input Select Signal
25		OUT	REG-CONT2	Power Regulator Control Signal
26		-	NU	Not Used
27		OUT	RGB-THROUGH	SCART 2 RGB Through Control Signal

Pin No.	Mark	IN/ OUT	Signal Name	Function
28		OUT	AUDIO-MUTE-2	Audio Mute Control Signal
29		OUT	DVD-AUDIO-MUTE	DVD Audio Mute Control Signal
30		-	NU	Not Used
31		IN	REC-SAF-SW	Recording Safety SW Detect (With Record tab="L"/ With out Record tab="H")
32		IN	P-DOWN -H	Power Voltage Down Detector Signal
33		OUT	D-REC-H	Delayed Record Signal
34		IN	RESET	System Reset Signal (Reset="L")
35		IN	Xcin	Sub Clock
36		OUT	Xcout	Sub Clock
37		-	Vcc	Vcc
38		IN	Xin	Main Clock Input
39		OUT	Xout	Main Clock Input
40		-	GND	Vss(GND)
41		OUT	PWR-SW	DVD Power Supply Control Signal
42		OUT	REGULATOR-CONTROL	Power Regulator Control Signal
43		IN	CLKSEL	Clock Select (GND)
44		IN	OSCin	Clock Input for letter size
45		OUT	OSCOut	Clock Output for letter size
46		-	NUB	Not Used
47		IN	LP	LP
48		IN	FSC-IN [4.43MHz]	4.43MHz Clock Input
49		-	OSDVss	OSDVss
50		IN	OSD-V-IN	OSD Video Signal Input
51		-	NU	Not Used
52		OUT	OSD-V-OUT	OSD Video Signal Output
53		-	OSDVcc	OSDVcc
54		-	HLF	LPF Connected Terminal (Slicer)
55		-	NU	Not Used
56	A,C	-	NU	Not Used
	B,D	IN	DAVN-L	VPS/PDC Data Receive = "L"
57		-	NU	Not Used
58		IN	C-SYNC	Composite Synchronized Pulse

Pin No.	Mark	IN/ OUT	Signal Name	Function
59		OUT	8POUT-1	Control SCART 1 8Pin Level by using 8POUT-1 and 8POUT-2
60		OUT	8POUT-2	Control SCART 1 8Pin Level by using 8POUT-1 and 8POUT-2
61		-	NU	Not Used
62		-	NU	Not Used
63		OUT	SYSTEM-RESET	System Reset Signal
64		IN	READY/BUSY	Ready/Busy communication Control with Main Micro Controller
65		IN	S-DATA-OUT	Communication of Data from VCR Micro Controller
66		OUT	S-DATA-IN	Communication of Data to VCR Micro Controller
67		OUT	S-CLOCK	Communication of Clock with VCR Micro Controller
68		OUT	DRV-DATA	VFD Driver IC Control Data
69		OUT	DRV-STB	VFD Driver IC Chip Select Signal
70		OUT	DRV-CLK	VFD Driver IC Control Clock
71		OUT	IIC-BUS-SCL	IIC BUS Control Clock
72		IN/ OUT	IIC-BUS-SDA	IIC BUS Control Data
73		-	NU	Not Used
74		-	NU	Not Used
75		OUT	P-ON-H	Power On Signal to High
76		OUT	C-CONT	Capstan Motor Control Signal
77		OUT	D-CONT	Drum Motor Control Signal
78		OUT	C-F/R	Capstan Motor FWD/ REV Control Signal (FWD="L"/REV="H")
79		IN	S-REEL	Supply Reel Rotation Signal
80		IN	T-REEL	Take Up Reel Rotation Signal
81		OUT	LM-FWD/REV	Loading Motor Control Signal
82		OUT	OUTPUT-SELECT	Output Select
83		OUT	VCR-AUDIO-MUTE	Audio Mute Control Signal (Mute = "H")

Pin No.	Mark	IN/ OUT	Signal Name	Function
84		OUT	C-POW-SW	Capstan Power Switching Signal
85		IN	VCR POW-SAFETY	VCR Power Supply Safety Signal
86		IN	A-MODE	Hi-Fi Tape Detection Signal
87		IN	C-FG	Capstan Motor Rotation Detection Pulse
88		-	AMPVss	AMPVss
89		-	NU	Not Used
90		IN	D-PFG	Drum Motor Phase/ Frequency Generator
91		-	AMPVREF out	V-Ref for CTL AMP
92		-	AMPVREF in	V-Ref for CTL AMP
93		-	P80/C	P80/C Terminal
94		IN/ OUT	CTL (-)	Playback/Record Control Signal (-)
95		IN/ OUT	CTL (+)	Playback/Record Control Signal (+)
96		-	AMPC	CTL AMP Connected Terminal
97		-	CTL	To Monitor for CTL AMP Output
98		-	AMPVcc	AMPVcc
99		-	AVcc	A/D Converter Power Input/ Standard Voltage Input
100		IN	AGC	IF AGC Comparator Signal

Notes:

Abbreviation for Active Level:

PWM -----Pulse Wide Modulation

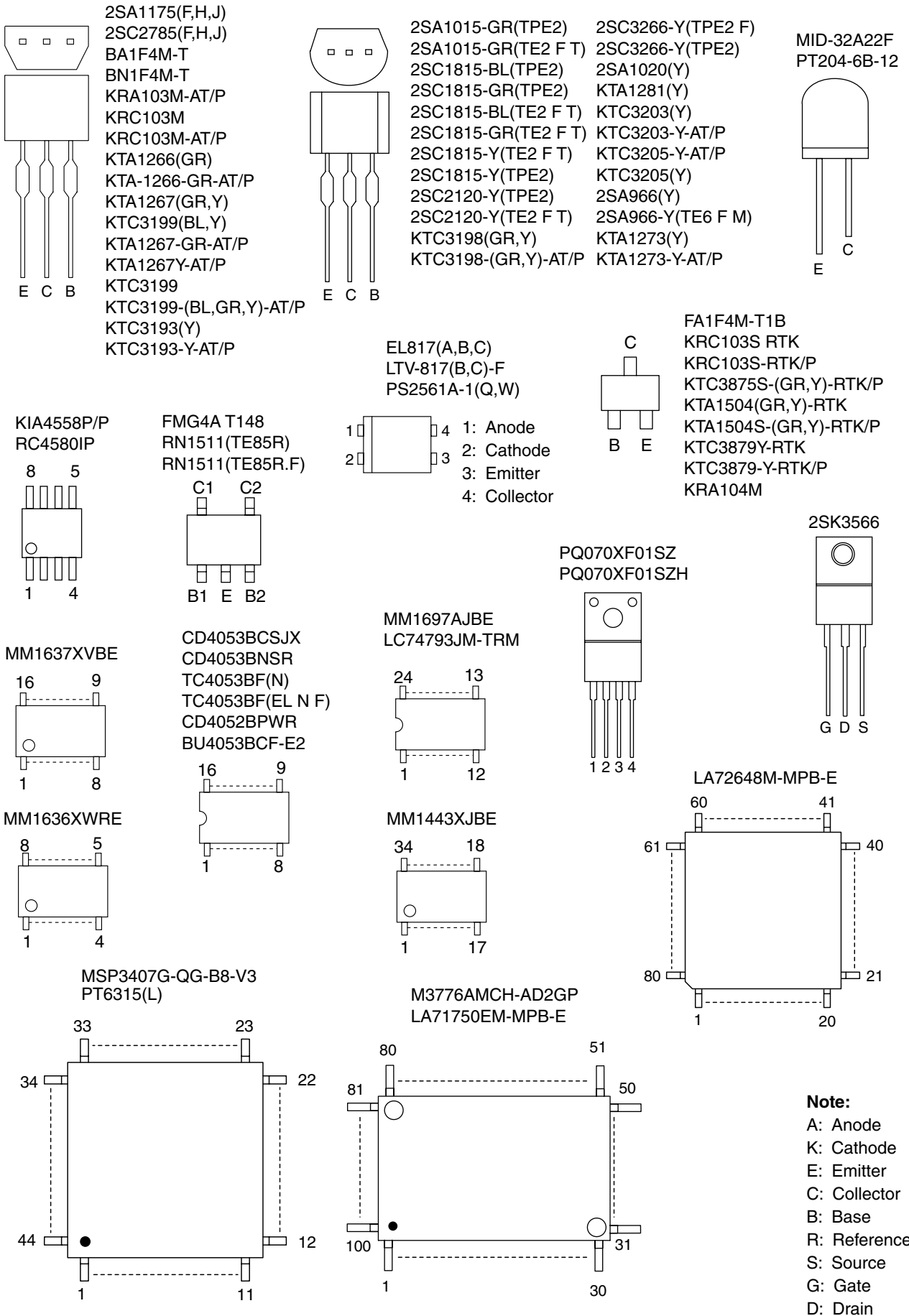
A/D-----Analog - Digital Converter

IC612 (FIP DRIVER)

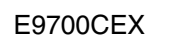
Pin No.	IN/ OUT	Signal Name	Name Function
1	OUT	POWER-LED	Power LED Signal Output
2	OUT	VCR-LED	VCR Mode LED Signal Output
3	OUT	DVD-LED	DVD Mode LED Signal Output
4	-	NU	Not Used
5	IN	OSC	Oscillator Input
6	-	NU	Not Used
7	IN	DIN	Serial Data Input
8	IN	CLK	Clock Input
9	IN	STB	Serial Interface Strobe
10	-	NU	Not Used
11	-	NU	Not Used
12	-	VSS	GND
13	-	VDD	Power Supply
14	-	NU	Not Used
15	-	NU	Not Used
16	-	NU	Not Used
17	-	NU	Not Used
18	-	NU	Not Used
19	-	NU	Not Used
20	OUT	c	Segment Output
21		b	
22		a	
23		d	
24		e	
25		f	
26		i	
27		h	
28		g	
29	-	NU	Not Used
30	-	VEE	Pull Down Level
31	-	NU	Not Used
32	-	NU	Not Used
33	-	NU	Not Used
34	-	NU	Not Used
35	-	NU	Not Used

Pin No.	IN/ OUT	Signal Name	Name Function
36	OUT	7G	Grid Output
37		6G	
38		5G	
39		4G	
40		3G	
41		2G	
42		1G	
43	-	VDD	Power Supply
44	-	VSS	GND

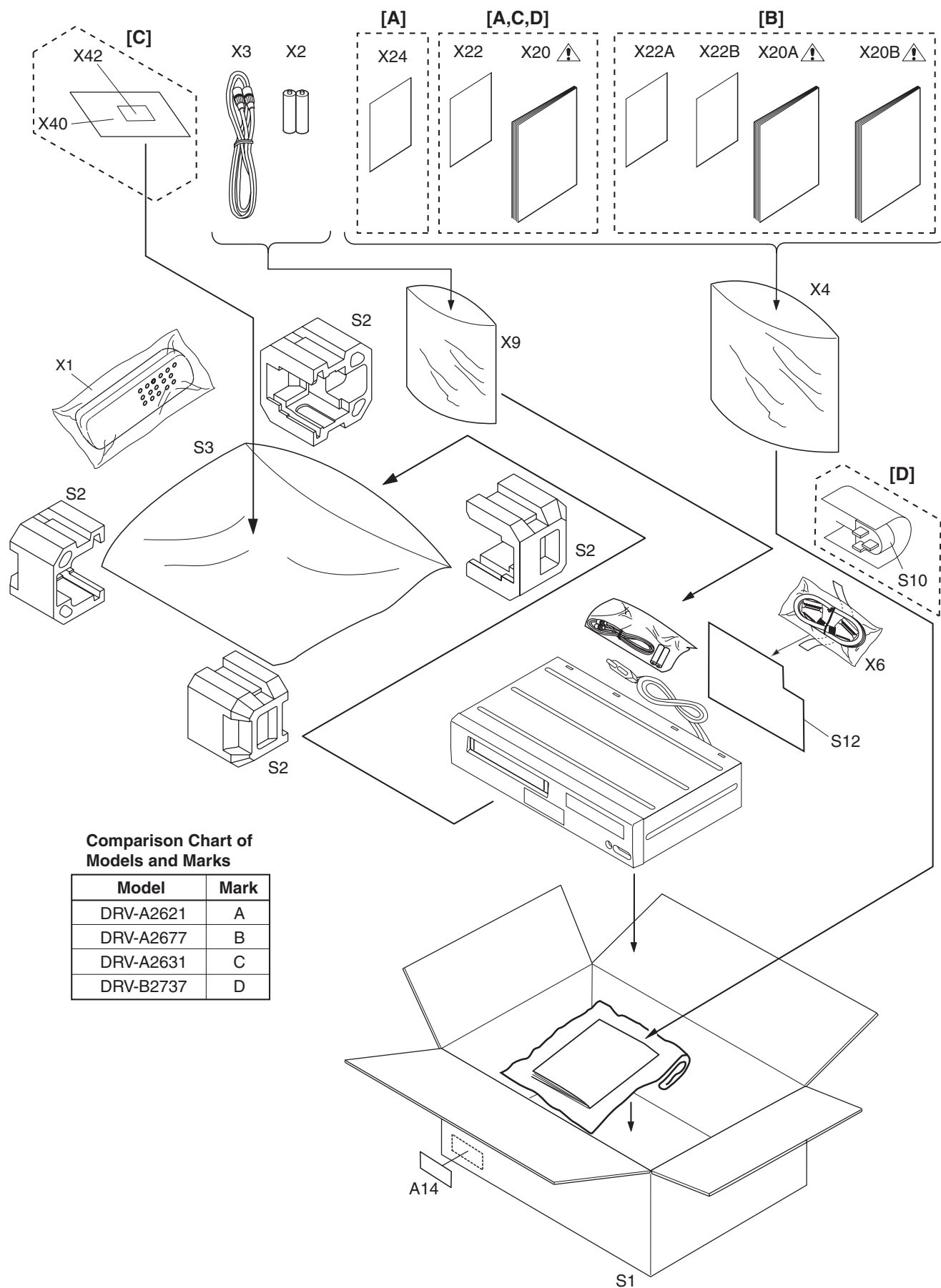
LEAD IDENTIFICATIONS




Cabinet



Packing



MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (-----) are not available.


Comparison Chart of Models and Marks

Model	Mark
DRV-A2621	A
DRV-A2677	B
DRV-A2631	C
DRV-B2737	D

Ref. No.	Mark	Description	Part No.
A1X	A	FRONT ASSEMBLY E9700ED	1VM220441
A1X	B	FRONT ASSEMBLY E9704ED	1VM220440
A1X	C	FRONT ASSEMBLY E9703ED	1VM220439
A1X	D	FRONT ASSEMBLY E9701BD	1VM220438
A2		TOP COVER E9400UD	0VM101356C
A3		MAIN CHASSIS E9400UD	0VM101353E
A4	A,C	REAR PANEL E9700ED	1VM220288
A4	B	REAR PANEL E9704ED	1VM220454
A4	D	REAR PANEL E9702FD	1VM220552
A10, 	A	RATING LABEL(U) E9700ED or	-----
	A	RATING LABEL(D) E9700ED	-----
A10, 	B	RATING LABEL(U) E9704ED or	-----
	B	RATING LABEL(D) E9704ED	-----
A10, 	C	RATING LABEL(U) E9707ED or	-----
	C	RATING LABEL(D) E9707ED	-----
A10, 	D	RATING LABEL(U) E9705BD or	-----
	D	RATING LABEL(D) E9705BD	-----
A14		BARCODE LABEL UNFIGURE E9704ED	-----
A14	A	BARCODE LABEL E9700ED	-----
A14	B	BARCODE LABEL E9704ED	-----
A14	C	BARCODE LABEL E9707ED	-----
A14	D	BARCODE LABEL E9705BD	-----
A34		FOOT K7010UA	0VM403657
1B1		DECK ASSEMBLY CZD014/VM25E0	N25E0FL
2B1		DECK PEDESTAL E9600UD	1VM120055
2B2		FRONT BRACKET E9400UD	0VM204534A
2B3		FRONT BRACKET R E9400UD	0VM416269A
2B4		EARTH PLATE E9400UD	0VM416272
2B9		MECHA EARTH PLATE E9600UD	1VM421129
2B10		PCB HOLDER E9700UD	1VM120056
2B11		BRACKET R E9600UD	1VM421062
2B13		JACK BRACKET E9400UD	0VM416273
2B14		CUSHION RUBBER E9400UD	0VM416664
2B19		RADIATION SHEET E9700ED	1VM320806
2B20, 		CAUTION LABEL(PAL) E6800ED	-----
2B31		TAPE HIMELON H9206JD	0VM413956
2B50	B	GEMSTAR LABEL E6710JD	-----
2B59		JACK EARTH PLATE E9600UD	1VM320623
2B60		PLATE GROUND(21PIN) H9500ED	0VM415201
2B62		MECHA EARTH PLATE E9600UD	1VM421129
2B63		TAPE HIMELON H9500ED	0VM415504
2L011		SCREW C-TIGHT M3X5 BIND HEAD +	GBCC3050
2L013		SCREW S-TIGHT M3X6 BIND HEAD+	GBMS3060
2L014		SCREW S-TIGHT M3X6 BIND HEAD+	GBMS3060
2L015		SCREW S-TIGHT M3X5 BIND HEAD+	GBMS3050

Ref. No.	Mark	Description	Part No.
2L017		SCREW S-TIGHT M3X8 BIND HEAD+	GBMS3080
2L018		SCREW S-TIGHT M3X6 BIND HEAD+	GBMS3060
2L021		SCREW P-TIGHT M3X8 BIND HEAD+	GBCP3080
2L022		SCREW S-TIGHT M3X6 BIND HEAD+	GBMS3060
2L030		P-TIGHT SCREW 3X8 BIND +	GBMP3080
2L033		SCREW S-TIGHT M3X6 BIND HEAD+	GBMS3060
2L043		P-TIGHT SCREW 3X8 BIND +	GBMP3080
2L044		P-TIGHT SCREW 3X8 BIND +	GBMP3080
2L045		P-TIGHT SCREW 3X8 BIND +	GBMP3080
2L052		SCREW P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L054		SCREW P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L060		P-TIGHT SCREW 3X8 BIND +	GBMP3080
2L061		SCREW P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L062		SCREW B-TIGHT M3X8 BIND HEAD +	GBKB3080
2L065		SCREW C-TIGHT M3X5 BIND HEAD +	GBCC3050
2L071		SCREW P-TIGHT M3X10 WASHER HEAD+	GCMP3100
2L081		SCREW S-TIGHT M3X5 BIND HEAD +	GBKS3050
2L082		SCREW S-TIGHT M3X5 BIND HEAD +	GBKS3050
2L100		P-TIGHT SCREW M3X34 E9400UD	1VM420034A
2L110		SCREW S-TIGHT M3X10 BIND HEAD+	GBMS3100
2L111		SCREW P-TIGHT 3X12 BIND HEAD+	GBMP3120
PACKING			
S1	A	GIFT BOX CARTON E9700ED	1VM320641
S1	B	GIFT BOX CARTON E9704ED	1VM320725
S1	C	GIFT BOX CARTON E9707ED	1VM320736
S1	D	GIFT BOX CARTON E9705BD	1VM320733
S2	A,B,C	SIDE PAD E9700ED	1VM120081
S2	D	SIDE PAD E9701BD	1VM120075
S3		SET BAG E7708UA	0DM400731A
S10	D	AC PAD HC461BD	0VM413331
S12		21P PAD E9704ED	1VM422135
ACCESSORIES			
X1	A,C,D	REMOTE CONTROL UNIT NB123ED	NB123ED
X1	B	REMOTE CONTROL UNIT NB132ED	NB132ED
X2		DRY BATTERY R6P/2S or	XB0M451T0001
		DRY BATTERY ES-GR6M-C	XB0M571GLP01
X3		RF CORD PAL 1.2M or	WPZ0122LG001
		RF CABLE CC1001020012010	WPZ0122LW001
X4		ACCESSORY BAG E5700UD	0VM415576
X6		21P CABLE(BYR SUPPLY) H9300ED	0VMN03276
X9		REMOCON BAG E9704ED	1VM422101
X20, 	A	OWNERS MANUAL(ITA) E9700ED	1VMN20545
X20, 	C	OWNERS MANUAL(GRE) R9707ED	1VMN20787
X20, 	D	OWNERS MANUAL(ENG) E9705BD	1VMN20789
X20A, 	B	OWNERS MANUAL(ENG) E9704ED	1VMN20560
X20B, 	B	OWNERS MANUAL (GER) E9704ED	1VMN20886
X22	A	QUICK GUIDE(ITA) E9700ED	1VMN20546
X22	C	QUICK GUIDE(GRE) E9707ED	1VMN20788
X22	D	QUICK GUIDE(ENG) E9705BD	1VMN20790
X22A	B	QUICK GUIDE(ENG) E9704ED	1VMN20793
X22B	B	QUICK GUIDE(GER) E9704ED	1VMN20887
X24	A	SERVICE CENTER LIST HC2C0ED	0VMN03071B
X40	C	WARRANTY CARD E9707ED	1VMN20828
X42	C	LABEL SERIAL NO. H9500ED	-----

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

- Parts that are not assigned part numbers (-----) are not available.
- Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%
 G.....±2% J.....±5% K.....±10%
 M.....±20% N.....±30% Z.....+80/-20%

Comparison Chart of Models and Marks

Model	Mark
DRV-A2621	A
DRV-A2677	B
DRV-A2631	C
DRV-B2737	D

DVD Mechanism & DVD MAIN CBA Assy

Ref. No.	Mark	Description	Part No.
	A B C D	DVD Mechanism & DVD MAIN CBA Assy DVD Mechanism & DVD MAIN CBA Assy DVD Mechanism & DVD MAIN CBA Assy DVD Mechanism & DVD MAIN CBA Assy	N78GABEN N78GDBEN N78GFBEN N78GBBBN

MCV CBA

Ref. No.	Mark	Description	Part No.
	A,C B D	MCV CBA MCV CBA MCV CBA Consists of the following	1VSA11666 1VSA11746 1VSA11756
		MAIN CBA (MCV-A) POWER SW CBA (MCV-B) FUNCTION CBA (MCV-C) FRONT JACK CBA (MCV-D) SENSOR CBA	----- ----- ----- ----- 1VSA11699

MAIN CBA

Ref. No.	Mark	Description	Part No.
		MAIN CBA (MCV-A) Consists of the following:	-----
CAPACITORS			
C251		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C252		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C253		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C254		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C301		CHIP CERAMIC CAP. CH J 150pF/50V or	CHD1JJ3CH151
		CHIP CERAMIC CAP. CG J 150pF/50V	CHD1JJ3CG151
C302		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C303		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104

Ref. No.	Mark	Description	Part No.
C305		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C306		CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C307		CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022μF/25V	CHD1EK30B223
C308		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C311		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C312		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C313		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C314		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C315		CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C316		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C317		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C322		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C324		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C325		CHIP CERAMIC CAP. B K 8200pF/50V	CHD1JK30B822
C326		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C327		ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMAVSL221
C328		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C329		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C331		ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMAVSL221
C333		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C334		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C335		ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C336		CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
		CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C337		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C339		CHIP CERAMIC CAP. CH J 120pF/50V or	CHD1JJ3CH121
		CHIP CERAMIC CAP. CG J 120pF/50V	CHD1JJ3CG121
C340		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C341		CHIP CERAMIC CAP.(1608) CH D 10pF/50V or	CHD1JD3CH100

Ref. No.	Mark	Description	Part No.
		CHIP CERAMIC CAP.(1608) CG D 10pF/50V	CHD1JD3CG100
C342		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V or	CHD1JJ3CH102
		CHIP CERAMIC CAP. CG J 1000pF/50V	CHD1JJ3CG102
C343		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C344		ELECTROLYTIC CAP. 4.7μF/25V M NP H7	CP1EMAVSB4R7
C345		ELECTROLYTIC CAP. 0.47μF/50V M H7	CE1JMAVSLR47
C346		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C347		CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C349		ELECTROLYTIC CAP. 0.47μF/50V M H7	CE1JMAVSLR47
C350		CERAMIC CAP.(AX) F Z 0.1μF/50V	CCA1JZTFZ104
C402		FILM CAP.(P) 0.018μF/50V J or	CMA1JJP00183
		FILM CAP.(P) 0.018μF/50V J	CA1J183MS029
C403		CERAMIC CAP. B K 470pF/100V	CCD2AKS0B471
C404		ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMASSL221
C405		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C407		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C408		CHIP CERAMIC CAP. B K 1800pF/50V	CHD1JK30B182
C409		CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
		CHIP CERAMIC CAP. CG J 33pF/50V	CHD1JJ3CG330
C410		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C411		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C412		ELECTROLYTIC CAP. 33μF/6.3V M H7	CE0KMAVSL330
C413		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C414		CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022μF/25V	CHD1EK30B223
C415		ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C416		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C417		ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C418		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C419		CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
		CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C421		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C452		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C453		ELECTROLYTIC CAP. 22μF/10V M H7	CE1AMAVSL220
C454		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C455		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C456		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C457		ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C458		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C461		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C462		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472

Ref. No.	Mark	Description	Part No.
C463		ELECTROLYTIC CAP. 22μF/10V M H7	CE1AMAVSL220
C464		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C465		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C466		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C467		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C468		ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMAVSL221
C469		ELECTROLYTIC CAP. 22μF/10V M H7	CE1AMAVSL220
C470		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C471		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C472		ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C473		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C474		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C475		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C476		ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C478		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C479		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C480		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C481		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C482		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C483		ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C484		ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C485		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C486		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C487		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C488		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C502		CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022μF/25V	CHD1EK30B223
C505		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C506		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C507		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C508		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C509		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102

Ref. No.	Mark	Description	Part No.
C510		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C511		CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
		CHIP CERAMIC CAP.(1608) CG J 100pF/50V	CHD1JJ3CG101
C512		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C514		CHIP CERAMIC CAP. B K 330pF/50V	CHD1JK30B331
C515		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C516		ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C517		CERAMIC CAP.(AX) F Z 0.022μF/25V	CCA1EZTFZ223
C518		ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C519		CHIP CERAMIC CAP. CH J 560pF/50V or	CHD1JJ3CH561
		CHIP CERAMIC CAP. CG J 560pF/50V	CHD1JJ3CG561
C521		ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C522		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C524		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C527		CERAMIC CAP.(AX) B K 100pF/50V	CCA1JKT0B101
C531		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C533		CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C534		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C535		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C538		CHIP CERAMIC CAP. CH J 180pF/50V or	CHD1JJ3CH181
		CHIP CERAMIC CAP. CG J 180pF/50V	CHD1JJ3CG181
C539		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C540		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C541		CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJ3CH180
		CHIP CERAMIC CAP. CG J 18pF/50V	CHD1JJ3CG180
C542		CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJ3CH180
		CHIP CERAMIC CAP. CG J 18pF/50V	CHD1JJ3CG180
C543		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C544		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C545		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C546		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C547		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C548		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C549		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C550		ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C553		ELECTROLYTIC CAP. 22μF/10V M H7	CE1AMAVSL220
C554		ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C555		CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C560		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104

Ref. No.	Mark	Description	Part No.
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C611		ELECTROLYTIC CAP. 22μF/50V M H7	CE1JMASSL220
C612		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C614		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C615		ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C616		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1500		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C1502		ELECTROLYTIC CAP. 47μF/6.3V M or	CE0KMASDL470
		ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASTL470
C1503		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1504		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C1505		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C1506		ELECTROLYTIC CAP. 47μF/16V M or	CE1CMASDL470
		ELECTROLYTIC CAP. 47μF/16V M	CE1CMASTL470
C1507		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASTL100
C1508		CERAMIC CAP.(AX) B K 0.1μF/25V	CCA1EKT0B104
C1509		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASTL100
C1510		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASTL100
C1511		ELECTROLYTIC CAP. 220μF/16V M or	CE1CMASDL221
		ELECTROLYTIC CAP. 220μF/16V M	CE1CMASTL221
C1512		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C1513		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1517		ELECTROLYTIC CAP. 47μF/16V M or	CE1CMASDL470
		ELECTROLYTIC CAP. 47μF/16V M	CE1CMASTL470
C1518		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1519		CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C1520		CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C1521		CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C1524		CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C1525		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1526		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1527		ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47μF/25V M	CE1EMASTL470
C1528		ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
		ELECTROLYTIC CAP. 100μF/16V M	CE1CMASTL101
C1529		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1530		ELECTROLYTIC CAP. 22μF/16V M or	CE1CMASDL220
		ELECTROLYTIC CAP. 22μF/16V M	CE1CMASTL220
C1531		ELECTROLYTIC CAP. 47μF/6.3V M or	CE0KMASDL470
		ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASTL470
C1532		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASTL100
C1533		ELECTROLYTIC CAP. 100μF/6.3V M or	CE0KMASDL101
		ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101

Ref. No.	Mark	Description	Part No.
C1534		ELECTROLYTIC CAP. 100μF/6.3V M or	CE0KMASDL101
		ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101
C1535		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1536		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1537		ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMASSL221
C1538		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1539		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1540		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1541		ELECTROLYTIC CAP. 100μF/6.3V M or	CE0KMASDL101
		ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101
C1542		ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
		ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C1543		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1544		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C1546		CHIP CERAMIC CAP. F Z 0.01μF/50V	CHD1JZ30F103
C1548		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1549		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1550		ELECTROLYTIC CAP. 47μF/6.3V M or	CE0KMASDL470
		ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASTL470
C1552		CHIP CERAMIC CAP. CH J 27pF/50V or	CHD1JJ3CH270
		CHIP CERAMIC CAP. CG J 27pF/50V	CHD1JJ3CG270
C1553		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1554		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1555		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1556		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C1557		ELECTROLYTIC CAP. 47μF/16V M or	CE1CMASDL470
		ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C1558		CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
		CHIP CERAMIC CAP.(1608) CG J 100pF/50V	CHD1JJ3CG101
C1560		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1563		ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
		ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C1564		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104

Ref. No.	Mark	Description	Part No.
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1565		ELECTROLYTIC CAP. 100μF/6.3V M or	CE0KMASDL101
		ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101
C1566		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1567		ELECTROLYTIC CAP. 47μF/16V M or	CE1CMASDL470
		ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C1569		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1571	B,D	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL477
C1572		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1573		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1574	B,D	CERAMIC CAP.(AX) F Z 0.1μF/50V	CCA1JZTFZ104
C1575	B,D	SEMICONDUCTOR CAP. SR K 0.018μF/25V	CDA1EKP0X183
C1576		CHIP CERAMIC CAP.(1608) CH J 270pF/50V or	CHD1JJ3CH271
		CHIP CERAMIC CAP. A J 270pF/50V	CHD1JJ3CG271
C1577		CHIP CERAMIC CAP.(1608) CH J 270pF/50V or	CHD1JJ3CH271
		CHIP CERAMIC CAP. A J 270pF/50V	CHD1JJ3CG271
C1578		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1580		ELECTROLYTIC CAP. 22μF/16V M or	CE1CMASDL220
		ELECTROLYTIC CAP. 22μF/16V M	CE1CMASDL220
C1581		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1585		ELECTROLYTIC CAP. 100μF/6.3V M or	CE0KMASDL101
		ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101
C1586		CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
		CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1588		CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
		CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1590		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1591		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1592		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1594		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1595		ELECTROLYTIC CAP. 22μF/16V M or	CE1CMASDL220
		ELECTROLYTIC CAP. 22μF/16V M	CE1CMASDL220
C1597		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1598		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1599		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1601		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C1602		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C1603	B,D	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C1604	B,D	ELECTROLYTIC CAP. 1μF/50V M H7 NP	CP1JMAVSB1R0
C1605		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1606		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1607		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471

Ref. No.	Mark	Description	Part No.
C1609		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1610	B,D	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1611	B,D	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C1612		ELECTROLYTIC CAP. 100μF/6.3V M or	CE0KMASDL101
		ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101
C1617		CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C1618		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1619		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1620		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1621		CHIP CERAMIC CAP. CH J 39pF/50V or	CHD1JJ3CH390
		CHIP CERAMIC CAP. CG J 39pF/50V	CHD1JJ3CG390
C1626		CHIP CERAMIC CAP. F Z 0.22μF/16V or	CHD1CZ30F224
		CHIP CERAMIC CAP. FZ Z 0.22μF/25V	CHD1EZ3FZ224
C1627		CHIP CERAMIC CAP. F Z 0.22μF/16V or	CHD1CZ30F224
		CHIP CERAMIC CAP. FZ Z 0.22μF/25V	CHD1EZ3FZ224
C1628		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1629		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1630		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1631		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1632		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1633		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1634		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1637		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1639		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1640		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1643		ELECTROLYTIC CAP. 47μF/6.3V M or	CE0KMASDL470
		ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASTL470
C1648		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1649		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1652	B,D	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	B,D	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	B,D	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1657		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1658		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1659		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1660		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1661		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1662		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0

Ref. No.	Mark	Description	Part No.
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1663		CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C1664		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1665		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1671		ELECTROLYTIC CAP. 4.7μF/25V M or	CE1EMASDL4R7
		ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASTL4R7
C1672		ELECTROLYTIC CAP. 4.7μF/25V M or	CE1EMASDL4R7
		ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASTL4R7
C1673		ELECTROLYTIC CAP. 47μF/16V M or	CE1CMASDL470
		ELECTROLYTIC CAP. 47μF/16V M	CE1CMASTL470
C1675		ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47μF/25V M	CE1EMASTL470
C1681		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1684		ELECTROLYTIC CAP. 4.7μF/25V M or	CE1EMASDL4R7
		ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASTL4R7
C1685		ELECTROLYTIC CAP. 4.7μF/25V M or	CE1EMASDL4R7
		ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASTL4R7
C1686		ELECTROLYTIC CAP. 4.7μF/25V M or	CE1EMASDL4R7
		ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASTL4R7
C1687		ELECTROLYTIC CAP. 4.7μF/25V M or	CE1EMASDL4R7
		ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASTL4R7
C1688		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1689		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1691		CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
		CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1692		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1693		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1694		CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C1695		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1696		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C1697		ELECTROLYTIC CAP. 4.7μF/25V M or	CE1EMASDL4R7
		ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASTL4R7
C1698		ELECTROLYTIC CAP. 4.7μF/25V M or	CE1EMASDL4R7
		ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASTL4R7
C1699		CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
		CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1700		CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C1701		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C1702		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
CONNECTORS			
CN1503		PH CONNECTOR TOP 2P B2B-PH-K-S or	J3PHC02JG001
		PH CONNECTOR (WHITE) TOP 2P B2B-PH-K-S(LF)	J3PHC02JG017
CN1504		242 SERIES CONNECTOR 224202119W1	J322C19TG001
CN1505		FE CONNECTOR TOP 8P 08FE-BT-VK-N	JCFEJ08JG001
CN1506	A,B,C	AFV PCB ASSEMBLY E9700AFV	E9700AFV
CN1506	D	AFV PCB ASSEMBLY E9701AFV	E9701AFV
DIODES			
D301		SWITCHING DIODE 1N4148M or	NDT01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDT001SS133
D502		LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D503		LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D510		SWITCHING DIODE 1N4148M or	NDT01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDT001SS133

Ref. No.	Mark	Description	Part No.
D511		ZENER DIODE DZ-7.5BSAT265 or	NDTA0DZ7R5BS
		ZENER DIODE MTZJT-777.5A	QDTA0MTZJ7R5
D512		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D555		LED MIE-534A2 or	NPZZM1E534A2
		LED SIR-563ST3F P or	QPQPS1R563ST
		LED SIR-563ST3F Q	QPQQS1R563ST
D1501		DIODE 1N5397-B	NDLZ001N5397
D1502		DIODE 1N5397-B	NDLZ001N5397
D1503		PCB JUMPER D0.6-P15.0	JW15.0T
D1504		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1506		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1507		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1508		ZENER DIODE DZ-4.3BSCT265 or	NDTC0DZ4R3BS
		ZENER DIODE MTZJT-774.3C	QDTC0MTZJ4R3
D1511		ZENER DIODE DZ-10BSBT265 or	NDTB00DZ10BS
		ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D1512		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1513		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1516		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1517		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1518		ZENER DIODE DZ-18BSBT265 or	NDTB00DZ18BS
		ZENER DIODE MTZJT-7718B	QDTB00MTZJ18
D1519		ZENER DIODE DZ-11BSBT265 or	NDTB00DZ11BS
		ZENER DIODE MTZJT-7711B	QDTB00MTZJ11
D1521		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1523		ZENER DIODE DZ-5.6BSBT265 or	NDTB0DZ5R6BS
		ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D1525		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1526		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1528		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1529		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1531		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1532		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1534		ZENER DIODE DZ-33BSDT265 or	NDTD00DZ33BS
		ZENER DIODE MTZJT-7733D	QDTD00MTZJ33
D1535		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1537		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1538		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1539		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1540		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1542		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
ICS			
IC301		IC Y/C/A LA71750EM-MPB-E	QSZBA0RSY020
IC451		IC HIFI LA72648M-MPB-E	QSZBA0RSY033
IC501		SYSCON IC M3776AMCH-AD2GP	QSZAB0RHT068
IC612		VFD DRIVER IC PT6315(L)	NSZBA0RG2009

Ref. No.	Mark	Description	Part No.
IC1501		IC(ANALOG SW) CD4052BPWR	NSZBA0TTY142
IC1504		VOLTAGE REGULATOR PQ070XF01SZH or	QSZBA0SSH054
		VOLTAGE REGULATOR PQ070XF01SZ	QSZBA0SSH026
IC1505		VOLTAGE REGULATOR PQ070XF01SZH or	QSZBA0SSH054
		VOLTAGE REGULATOR PQ070XF01SZ	QSZBA0SSH026
IC1506		IC OP AMP RC4580IP	NSZBA0STY173
IC1507		VIDEO SWITCH MM1697AJBE	QSZBA0TMM150
IC1508		IC SWITCH TC4053BF(EL N F) or	QSZBA0TTS163
		IC SWITCH TC4053BF(N) or	QSMBA0STS002
		IC SWITCH BU4053BCF-E2 or	QSMDA0TRM010
		IC ANALOG MULTIPLEXERS CD4053BCSJX or	NSZBA0TF3071
		IC ANALOG MULTIPLEXER CD4053BNSR	NSZBA0TTY093
IC1509		IC SWITCH TC4053BF(EL N F) or	QSZBA0TTS163
		IC SWITCH TC4053BF(N) or	QSMBA0STS002
		IC SWITCH BU4053BCF-E2 or	QSMDA0TRM010
		IC ANALOG MULTIPLEXERS CD4053BCSJX or	NSZBA0TF3071
		IC ANALOG MULTIPLEXER CD4053BNSR	NSZBA0TTY093
IC1511	B,D	IC VPS/PDC SLICER LC74793JM-TRM	QSZBA0TSY018
IC1513		IC OP AMP KIA4558P/P or	NSZBA0SJY035
		IC OP AMP RC4580IP	NSZBA0STY173
IC1514		DRIVER FOR DVD MM1637XVBE	QSZBA0TMM102
IC1515		DRIVER FOR DVD MM1636XWRE	QSZBA0TMM108
IC1518		AV SWITCH MM1443XJBE	QSZBA0TMM152
COILS			
L251		INDUCTOR 5.6μH-K-26T	LLAXKATTU5R6
L302		INDUCTOR(100μH K) LAP02TA101K	LLAXKATTU101
L402		INDUCTOR 47μH-K-5FT	LLARKBSTU470
L451		INDUCTOR 47μH-K-5FT	LLARKBSTU470
L452		PCB JUMPER D0.6-P5.0	JW5.0T
L501		INDUCTOR(100μH K) LAP02TA101K	LLAXKATTU101
L502		PCB JUMPER D0.6-P5.0	JW5.0T
L503		INDUCTOR 1.8μH-K-26T	LLAXKATTU1R8
L1501		INDUCTOR(100μH K) LAP02TA101K	LLAXKATTU101
L1503		PCB JUMPER D0.6-P5.0	JW5.0T
L1504		PCB JUMPER D0.6-P5.0	JW5.0T
L1505		INDUCTOR(100μH K) LAP02TA101K	LLAXKATTU101
L1506		PCB JUMPER D0.6-P5.0	JW5.0T
L1507		CHOKE COIL 47μH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47μH-K or	LLBD00PKV007
		CHOKE COIL 47μH-K or	LLBD00PKV005
		CHOKE COIL 47μH-K or	LLBD00PKT001
		FIXED INDUCTORS LGB0810T-470K	LLBD00PU6007
L1508		PCB JUMPER D0.6-P5.0	JW5.0T
L1509		INDUCTOR(100μH K) LAP02TA101K	LLAXKATTU101
L1510		INDUCTOR 15μH-K-26T	LLAXKATTU150
L1513		INDUCTOR(0.47μH K) LAP02TAR47K	LLAXKATTUR47
L1515		BEAD CORE ASSEMBLY E9700ED	1VSA11697
L1517		PCB JUMPER D0.6-P5.0	JW5.0T
TRANSISTORS			
Q302		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q401		CHIP TRANSISTOR RN1511(Te85R.F) or	QQZ20RN1511F

Ref. No.	Mark	Description	Part No.
		CHIP TRANSISTOR FMG4A T148 or	QQ2Z000FMG4A
		CHIP TRANSISTOR RN1511 (TE85R)	QQ2Z00RN1511
Q403		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
		TRANSISTOR 2SC2120-Y (TE2 F T) or	QOSY2SC2120F
		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120-Y (TPE2)	QOSY02SC2120
Q404		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-GR (TE2 F T) or	QOS12SA1015F
		TRANSISTOR KTA1266 (GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR (TPE2)	QOS102SA1015
Q405		RES. BUILT-IN TRANSISTOR KRA103M-AT/P or	NQSZ0KRA103M
		RES. BUILT-IN TRANSISTOR BN1F4M-T	QOSZ00BN1F4M
Q406		CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q451		TRANSISTOR KRC103S-RTK/P or	NQ1ZKRC103SP
		CHIP TRANSISTOR KRC103S RTK or	NQ1Z0KRC103S
		CHIP TRANSISTOR FA1F4M-T1B	QQ8Z00FA1F4M
Q506		PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
		PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q513		TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
		RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
		RES. BUILT-IN TRANSISTOR BA1F4M-T	QOSZ00BA1F4M
Q514		TRANSISTOR KTC3199-BL-AT/P or	NQS5KTC3199P
		TRANSISTOR 2SC1815-BL (TE2 F T) or	QOS22SC1815F
		TRANSISTOR KTC3199 (BL) or	NQS50KTC3199
		TRANSISTOR 2SC1815-BL (TPE2)	QOS202SC1815
Q515		TRANSISTOR KTC3199-BL-AT/P or	NQS5KTC3199P
		TRANSISTOR 2SC1815-BL (TE2 F T) or	QOS22SC1815F
		TRANSISTOR KTC3199 (BL) or	NQS50KTC3199
		TRANSISTOR 2SC1815-BL (TPE2)	QOS202SC1815
Q516		CHIP TRANSISTOR KTC3875S-GR-RTK/P	NQ14KTC3875S
Q517		CHIP TRANSISTOR KTC3875S-GR-RTK/P	NQ14KTC3875S
Q1501		TRANSISTOR KTA1267Y-AT/P or	NQSYKTA1267P
		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR 2SA1175 (J) or	QOSJ02SA1175
		TRANSISTOR 2SA1175 (H) or	QOSH02SA1175
		TRANSISTOR 2SA1175 (F) or	QOSF02SA1175
		TRANSISTOR KTA1267 (Y) or	NQSY0KTA1267
		TRANSISTOR KTA1267 (GR)	NQS10KTA1267
Q1502		TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
		RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
		RES. BUILT-IN TRANSISTOR BA1F4M-T	QOSZ00BA1F4M
Q1507		CHIP TRANSISTOR KTA1504S-Y-RTK/P or	NQ1YKTA1504S
		CHIP TRANSISTOR KTA1504S-GR-RTK/P	NQ14KTA1504S
Q1508		TRANSISTOR KTA1281Y-AT/P or	NQVYKTA1281P
		TRANSISTOR 2SA1020-Y (TE6 F M) or	QOSY2SA1020F
		TRANSISTOR KTA1281 (Y) or	NQSY0KTA1281
		TRANSISTOR 2SA1020 (Y)	QOSY02SA1020
Q1509		TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
		RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
		RES. BUILT-IN TRANSISTOR BA1F4M-T	QOSZ00BA1F4M
Q1510		TRANSISTOR KTC3205-Y-AT/P or	NQSYKTC3205P
		TRANSISTOR 2SC3266-Y (TPE2 F) or	QOSY2SC3266F
		TRANSISTOR KTC3205 (Y) or	NQSY0KTC3205
		TRANSISTOR 2SC3266-Y (TPE2)	QOSY02SC3266
Q1511		TRANSISTOR KTA1273-Y-AT/P or	NQSYKTA1273P
		TRANSISTOR 2SA966-Y (TE6 F M) or	QOSY02SA966F
		TRANSISTOR KTA1273 (Y) or	NQSY0KTA1273
		TRANSISTOR 2SA966 (Y)	QOSY02SA966
Q1512		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y (TE2 F T) or	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR (TE2 F T) or	QOS12SC1815F

Ref. No.	Mark	Description	Part No.
		TRANSISTOR 2SC2785 (J) or	QOSJ02SC2785
		TRANSISTOR 2SC2785 (H) or	QOSH02SC2785
		TRANSISTOR 2SC2785 (F) or	QOSF02SC2785
		TRANSISTOR KTC3199 (Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y (TPE2) or	QOSY02SC1815
		TRANSISTOR 2SC1815-GR (TPE2)	QOS102SC1815
Q1513		TRANSISTOR KTA1267Y-AT/P or	NQSYKTA1267P
		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR 2SA1175 (J) or	QOSJ02SA1175
		TRANSISTOR 2SA1175 (H) or	QOSH02SA1175
		TRANSISTOR 2SA1175 (F) or	QOSF02SA1175
		TRANSISTOR KTA1267 (Y) or	NQSY0KTA1267
		TRANSISTOR KTA1267 (GR)	NQS10KTA1267
Q1514		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y (TE2 F T) or	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR (TE2 F T) or	QOS12SC1815F
		TRANSISTOR 2SC2785 (J) or	QOSJ02SC2785
		TRANSISTOR 2SC2785 (H) or	QOSH02SC2785
		TRANSISTOR 2SC2785 (F) or	QOSF02SC2785
		TRANSISTOR KTC3199 (Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y (TPE2) or	QOSY02SC1815
		TRANSISTOR 2SC1815-GR (TPE2)	QOS102SC1815
Q1515		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y (TE2 F T) or	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR (TE2 F T) or	QOS12SC1815F
		TRANSISTOR 2SC2785 (J) or	QOSJ02SC2785
		TRANSISTOR 2SC2785 (H) or	QOSH02SC2785
		TRANSISTOR 2SC2785 (F) or	QOSF02SC2785
		TRANSISTOR KTC3199 (Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y (TPE2) or	QOSY02SC1815
		TRANSISTOR 2SC1815-GR (TPE2)	QOS102SC1815
Q1516		RES. BUILT-IN TRANSISTOR KRA104M	NQSZ0KRA104M
Q1517		TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
		RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
		RES. BUILT-IN TRANSISTOR BA1F4M-T	QOSZ00BA1F4M
Q1518		TRANSISTOR KTC3205-Y-AT/P or	NQSYKTC3205P
		TRANSISTOR 2SC3266-Y (TPE2 F) or	QOSY2SC3266F
		TRANSISTOR KTC3205 (Y) or	NQSY0KTC3205
		TRANSISTOR 2SC3266-Y (TPE2)	QOSY02SC3266
Q1519		TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
		RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
		RES. BUILT-IN TRANSISTOR BA1F4M-T	QOSZ00BA1F4M
Q1520		TRANSISTOR KTC3193-Y-AT/P or	NQSYKTC3193P
		TRANSISTOR KTC3193 (Y) or	NQSY0KTC3193
Q1521		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y (TE2 F T) or	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR (TE2 F T) or	QOS12SC1815F
		TRANSISTOR 2SC2785 (J) or	QOSJ02SC2785
		TRANSISTOR 2SC2785 (H) or	QOSH02SC2785
		TRANSISTOR 2SC2785 (F) or	QOSF02SC2785
		TRANSISTOR KTC3199 (Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y (TPE2) or	QOSY02SC1815
		TRANSISTOR 2SC1815-GR (TPE2)	QOS102SC1815
Q1522		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y (TE2 F T) or	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR (TE2 F T) or	QOS12SC1815F
		TRANSISTOR 2SC2785 (J) or	QOSJ02SC2785
		TRANSISTOR 2SC2785 (H) or	QOSH02SC2785

Ref. No.	Mark	Description	Part No.
		TRANSISTOR 2SC2785(F) or	QQSFO2SC2785
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1525		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSFO2SC2785
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1527		TRANSISTOR KRC103S-RTK/P or	NQ12KRC103SP
		CHIP TRANSISTOR KRC103S RTK or	NQ120KRC103S
		CHIP TRANSISTOR FA1F4M-T1B	QQ8Z00FA1F4M
Q1529		TRANSISTOR KRC103S-RTK/P or	NQ12KRC103SP
		CHIP TRANSISTOR KRC103S RTK or	NQ120KRC103S
		CHIP TRANSISTOR FA1F4M-T1B	QQ8Z00FA1F4M
Q1530		CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q1531		TRANSISTOR KRC103S-RTK/P or	NQ12KRC103SP
		CHIP TRANSISTOR KRC103S RTK or	NQ120KRC103S
		CHIP TRANSISTOR FA1F4M-T1B	QQ8Z00FA1F4M
Q1532		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-GR(Te2 F T) or	QQS12SA1015F
		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015
Q1533		TRANSISTOR KTC3879-Y-RTK/P or	NQ1YKTC3879P
		CHIP TRANSISTOR KTC3879Y-RTK	NQ1Y0KTC3879
Q1534		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSFO2SC2785
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1535		CHIP TRANSISTOR KTA1504S-Y-RTK/P or	NQ1YKTA1504S
		CHIP TRANSISTOR KTA1504S-GR-RTK/P	NQ14KTA1504S
Q1536		CHIP TRANSISTOR KTA1504S-Y-RTK/P or	NQ1YKTA1504S
		CHIP TRANSISTOR KTA1504S-GR-RTK/P	NQ14KTA1504S
Q1537		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSFO2SC2785
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1538		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSFO2SC2785

Ref. No.	Mark	Description	Part No.
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1539		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSFO2SC2785
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1540		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSFO2SC2785
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199 or	NQS40KTC3199
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1541		TRANSISTOR KTA1267Y-AT/P or	NQSYKTA1267P
		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
		TRANSISTOR 2SA1175(H) or	QQSH02SA1175
		TRANSISTOR 2SA1175(F) or	QQSFO2SA1175
		TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
		TRANSISTOR KTA1267(GR)	NQS10KTA1267
Q1542		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR KTC3198(Y) or	NQSY0KTC3198
		TRANSISTOR KTC3198(GR)	NQS40KTC3198
RESISTORS			
R251		CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R252		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R301		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R303		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R305		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R310		CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R311		CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R314		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R316		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R319		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R320		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R321		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R322		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R323		CHIP RES.(1608) 1/10W F 200 Ω or	RRXAFR5H0201
		CHIP RES.(1608) 1/10W F 200 Ω	RRXAFR5Z0201
R324		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R325		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R326		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R327		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R328		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R330		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R331		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R332		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R333		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R334		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R335		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R336		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R337		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682

Ref. No.	Mark	Description	Part No.
R339		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R341		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R342		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R401		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R402		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R404		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R405		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R406		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R407		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R408		CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R409		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R410		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R411		CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R412		CHIP RES.(1608) 1/10W J 120 Ω	RRXAJR5Z0121
R413		CHIP RES.(1608) 1/10W J 330k Ω	RRXAJR5Z0334
R414		CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R415		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R416		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R417		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R418		CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R419		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R420		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R421		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R451		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R452		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R453		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R454		CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R462		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R463		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R464		CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R465		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R466		CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R467		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R469		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R470		CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R479		CHIP RES.(1608) 1/10W J 33 Ω	RRXAJR5Z0330
R480		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R481		CHIP RES.(1608) 1/10W J 33 Ω	RRXAJR5Z0330
R482		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R483		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R484		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R509		CHIP RES.(1608) 1/10W J 180 Ω	RRXAJR5Z0181
R511		CARBON RES. 1/6W G 3.6k Ω or	RCX6GATZ0362
		CARBON RES. 1/4W G 3.6k Ω	RCX4GATZ0362
R512		CHIP RES.(1608) 1/10W J 68k Ω	RRXAJR5Z0683
R513		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R514		CARBON RES. 1/6W G 10k Ω or	RCX6GATZ0103
		CARBON RES. 1/4W G 10k Ω	RCX4GATZ0103
R516		CARBON RES. 1/6W G 470 Ω or	RCX6GATZ0471
		CARBON RES. 1/4W G 470 Ω	RCX4GATZ0471
R517		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R519		CARBON RES. 1/6W G 22k Ω or	RCX6GATZ0223
		CARBON RES. 1/4W G 22k Ω	RCX4GATZ0223
R523		CARBON RES. 1/6W G 1.5k Ω or	RCX6GATZ0152
		CARBON RES. 1/4W G 1.5k Ω	RCX4GATZ0152
R525		CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R526		CARBON RES. 1/6W J 390k Ω or	RCX6JATZ0394
		CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R528		CARBON RES. 1/6W G 4.7k Ω or	RCX6GATZ0472
		CARBON RES. 1/4W G 4.7k Ω	RCX4GATZ0472
R536		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R537		CHIP RES.(1608) 1/10W J 680 Ω	RRXAJR5Z0681
R539		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R540		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R541		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183

Ref. No.	Mark	Description	Part No.
R542		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R543		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R544		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R545		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R546		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R553		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R555	B,D	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R558		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R567		CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R568		CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R569		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R570		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R572		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R574		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R575		CHIP RES.(1608) 1/10W J 330k Ω	RRXAJR5Z0334
R576		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R577		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R578		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R581		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R582		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R583		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R584		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R585		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R586		CHIP RES.(1608) 1/10W J 820 Ω	RRXAJR5Z0821
R588		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R593		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R595		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R596		CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R597		CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R598		CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R601		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R602		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R603		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R604		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R605		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R606		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R607		CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R608		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R617		PCB JUMPER D0.6-P5.0	JW5.0T
R618		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R621		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R622		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R623		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R624		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R625		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R626		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R627		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R628		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R629		CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R630		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R631		CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R632		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R643		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R644		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R645		CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R646		CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R647		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R648		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R649		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561

Ref. No.	Mark	Description	Part No.
R650		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R651		CARBON RES. 1/6W J 2.7k Ω or	RCX6JATZ0272
		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R652		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R653		CARBON RES. 1/6W J 2.7k Ω or	RCX6JATZ0272
		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R654		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R655		CARBON RES. 1/6W J 2.7k Ω or	RCX6JATZ0272
		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R656		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1500		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R1501		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1502		CARBON RES. 1/4W J 10 Ω	RCX4JATZ0100
R1504		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R1505		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R1507		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R1510		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R1512		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R1513		CARBON RES. 1/6W J 27k Ω or	RCX6JATZ0273
		CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R1514		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1519		PCB JUMPER D0.6-P5.0	JW5.0T
R1522		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1523		CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R1524		CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
		CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R1525		CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R1526		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R1527		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R1528		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R1529		CARBON RES. 1/6W J 1.5k Ω or	RCX6JATZ0152
		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R1530		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1531		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R1532		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R1533		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1536		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R1537		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R1538		CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R1539		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1540		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1541		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1543		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1544		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1547		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1550		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R1551		CHIP RES.(1608) 1/10W F 10k Ω or	RRXAFR5H0103
		CHIP RES.(1608) 1/10W F 10k Ω	RRXAFR5Z0103
R1552		CHIP RES.(1608) 1/10W F 10k Ω or	RRXAFR5H0103
		CHIP RES.(1608) 1/10W F 10k Ω	RRXAFR5Z0103
R1553		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R1555		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1556		CHIP RES. 1/10W F 15k Ω or	RRXAFR5H0153
		CHIP RES.(1608) 1/10W F 15k Ω	RRXAFR5Z0153
R1557		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1558		CHIP RES.(1608) 1/10W F 10k Ω or	RRXAFR5H0103
		CHIP RES.(1608) 1/10W F 10k Ω	RRXAFR5Z0103
R1559		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1560		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1561		CHIP RES. 1/10W F 120 Ω or	RRXAFR5H1200
		CHIP RES. 1/10W F 120 Ω	RRXAFR5Z1200
R1562		CHIP RES.(1608) 1/10W F 1.5k Ω or	RRXAFR5H0152
		CHIP RES.(1608) 1/10W F 1.5k Ω	RRXAFR5Z0152
R1563		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333

Ref. No.	Mark	Description	Part No.
R1564		CARBON RES. 1/6W J 22k Ω or	RCX6JATZ0223
		CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R1565		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1566		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R1567		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R1568		CARBON RES. 1/6W J 3.3k Ω or	RCX6JATZ0332
		CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R1569		CARBON RES. 1/6W J 3.3k Ω or	RCX6JATZ0332
		CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R1570		CARBON RES. 1/6W J 3.3k Ω or	RCX6JATZ0332
		CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R1571		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1572		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1573		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1574		PCB JUMPER D0.6-P5.0	JW5.0T
R1577		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1578		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1579		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1581		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R1582		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R1587		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1589		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1591		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1592		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R1593		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R1594		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1595		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1596		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R1597		CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R1598		CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R1599		CHIP RES.(1608) 1/10W F 200 Ω or	RRXAFR5H0201
		CHIP RES.(1608) 1/10W F 200 Ω	RRXAFR5Z0201
R1600		CHIP RES.(1608) 1/10W F 200 Ω or	RRXAFR5H0201
		CHIP RES.(1608) 1/10W F 200 Ω	RRXAFR5Z0201
R1605		CHIP RES.(1608) 1/10W F 200 Ω or	RRXAFR5H0201
		CHIP RES.(1608) 1/10W F 200 Ω	RRXAFR5Z0201
R1606		CHIP RES.(1608) 1/10W F 200 Ω or	RRXAFR5H0201
		CHIP RES.(1608) 1/10W F 200 Ω	RRXAFR5Z0201
R1610		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1611		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1614		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1616		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1619		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1620		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1626		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1628		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1630		CHIP RES.(1608) 1/10W F 8.2k Ω or	RRXAFR5H0822
		CHIP RES.(1608) 1/10W F 8.2k Ω	RRXAFR5Z0822
R1631		CHIP RES.(1608) 1/10W F 8.2k Ω or	RRXAFR5H0822
		CHIP RES.(1608) 1/10W F 8.2k Ω	RRXAFR5Z0822
R1632	B,D	CHIP RES.(1608) 1/10W J 2.7k Ω	RRXAJR5Z0272
R1633	B,D	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1634	B,D	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1636	B,D	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1637		CHIP RES.(1608) 1/10W F 13k Ω or	RRXAFR5H0133
		CHIP RES.(1608) 1/10W F 13k Ω	RRXAFR5Z0133
R1638		CHIP RES.(1608) 1/10W F 13k Ω or	RRXAFR5H0133
		CHIP RES.(1608) 1/10W F 13k Ω	RRXAFR5Z0133
R1639		CHIP RES.(1608) 1/10W J 13k Ω	RRXAJR5Z0133
R1640		CHIP RES.(1608) 1/10W J 13k Ω	RRXAJR5Z0133
R1641		CHIP RES.(1608) 1/10W F 4.7k Ω or	RRXAFR5H0472
		CHIP RES.(1608) 1/10W F 4.7k Ω	RRXAFR5Z0472
R1642		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1643		CARBON RES. 1/6W J 15k Ω or	RCX6JATZ0153
		CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153
R1644		CHIP RES.(1608) 1/10W F 220 Ω or	RRXAFR5H0221
		CHIP RES.(1608) 1/10W F 220 Ω	RRXAFR5Z0221

Ref. No.	Mark	Description	Part No.
R1647		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1648		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1649		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R1650		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1651		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1652	B,D	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1653	B,D	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R1654		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1656		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1657	B,D	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1658		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R1659		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1660		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1661		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1662	B,D	CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R1663		CHIP RES.(1608) 1/10W J 330 Ω	RRXAJR5Z0331
R1664		CHIP RES.(1608) 1/10W J 330 Ω	RRXAJR5Z0331
R1665		PCB JUMPER D0.6-P5.0	JW5.0T
R1666		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1669		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R1670		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1671		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1672		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1673		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1674		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1675		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1676		CARBON RES. 1/6W J 1.8k Ω or	RCX6JATZ0182
		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R1677		CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R1678		CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R1679		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R1680		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1681		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1685		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1686		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1687	B,D	CHIP RES.(1608) 1/10W J 390 Ω	RRXAJR5Z0391
R1688		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1689		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1690		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1691		CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R1692		CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R1693		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R1694		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1695		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R1696		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1697		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R1698		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R1700		CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R1701		CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R1702		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1703		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1704		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1708		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R1709		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R1710		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R1711		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R1712		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1713		CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R1714		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1715		CHIP RES.(1608) 1/10W J 820 Ω	RRXAJR5Z0821
R1716		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1717		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1718		CHIP RES.(1608) 1/10W J 16k Ω	RRXAJR5Z0163

Ref. No.	Mark	Description	Part No.
R1719		CHIP RES.(1608) 1/10W J 16k Ω	RRXAJR5Z0163
R1720		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1721		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1722		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R1723		CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R1724		CHIP RES.(1608) 1/10W J 15k Ω	RRXAJR5Z0153
R1725		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1726		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R1727		CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R1728		CHIP RES.(1608) 1/10W J 15k Ω	RRXAJR5Z0153
R1729		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
SWITCHES			
SW506		LEAF SWITCH MXS01830MVP0	SSC0101MCE03
SW507		ROTARY MODE SWITCH SSS-53MD	SSR0106KB003
SW521		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW522		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW523		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW524		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW525		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW526		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW527		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW528		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW601		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW603		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW605		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS			
2B16		BUSH LED(F) H3700UD	0VM409508
2B17		NEW SHIELD ASSEMBLY H9700ED	1VM420438
2B46		ROHM HOLDER H7770JD	0VM304573
FL601		VACUUM FLUORESCENT DISPLA 7-BT-301NS	TVFD1C0FT049
FM1001		DC FAN MOTOR 2410RL-04W-S20-C01 or	MMEZR12NM005
		DC FAN MOTOR KD1206PTS3 H.B1229.G	MMEZR12SNN05
JK1502		RGB CONNECTOR MRC-021V-05	JXGL210LY004
JK1503	B,D	FIBER OPTIC TRANS.MODULE 0C-0805T*002 or	JWHHA00JD002
	B,D	OPTICAL TRANSMITTING MODULE JST1162 or	JWHHA00SLT01
	B,D	FIBER OPTIC TRANS.MODULE GP1FA513TZ	JWHHA00SH005
JK1504		RCA JACK(BLACK) MSP-281V2-B	JXRL010LY062
JK1505		RCA JACK MSP-382V-12 NILF	JXRL020LY120
JK1506		S TYPE JACK MDC-050V-2.4	JXEL040LY001
JW101		FFC CABLE 30P FFC/P1.00/120	WX1E9700-001
JW102		FFC CABLE 30P FFC/P1.00/120	WX1E9700-001

Ref. No.	Mark	Description	Part No.
RM1501		REMOTE RECEIVER MIM-93M9DKF or	USESJRSUNT03
		REMOTE RECEIVER PIC-37042LQ	USESJRSK038
PS502		PHOTO INTERRUPTER RPI-302C70	QPWZP1302C70
TP301		PCB JUMPER D0.6-P11.5	JW11.5T
TP501		PCB JUMPER D0.6-P5.0	JW5.0T
TP502		PCB JUMPER D0.6-P7.0	JW7.0T
TP503		PCB JUMPER D0.6-P7.5	JW7.5T
TP504		PCB JUMPER D0.6-P25.0	JW25.0T
TU1501		TUNER UNIT TMDG9-861A	UTUNPLGAL015
VR501		CARBON P.O.T. VZ067TL1 B104 PB(F)	VRCB104HH014
X301		XTAL 4.433619MHz or	FXC445LLN001
		XTAL 1K*044334EE	FXC445LDS002
X501		XTAL 12.000MHz	FXD126LDS001
X502		XTAL 32.768kHz(20PPM) or	FXC323LQUA01
		XTAL 32.768kHz(20PPM)	FXC323LDS002

POWER SW CBA

Ref. No.	Mark	Description	Part No.
		POWER SW CBA (MCV-B) Consists of the following:	-----
DIODE			
D671		LED(RED) 204HD/E	NPQZ00204HDE
SWITCHES			
SW671		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS			
JW001		FLAT CABLE 4P AWG26#2651/P2.0/120	WX3804S6FF12

FUNCTION CBA

Ref. No.	Mark	Description	Part No.
		FUNCTION CBA (MCV-C) Consists of the following:	-----
SWITCHES			
SW681		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW682		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS			
JW002		FLAT CABLE 3P AWG26#2651/P2.0/80	WX3803S6FF08

FRONT JACK CBA

Ref. No.	Mark	Description	Part No.
		FRONT JACK CBA (MCV-D) Consists of the following:	-----
CAPACITORS			
C1205		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1206		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
CONNECTOR			
CN1201		FE CONNECTOR TOP 8P 08FE-BT-VK-N	JCFEJ08JG001
DIODES			
D1544		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1545		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1546		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1547		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
RESISTORS			
R1201		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1202		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1203		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221

Ref. No.	Mark	Description	Part No.
R1204		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R1205		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
MISCELLANEOUS			
JK1201		RCA JACK(YELLOW) MTJ-032-11B-40 FE01	JXRL010LY101
JK1202		RCA JACK(WHITE) MTJ-032-11B-41 FE01	JXRL010LY102
JK1203		RCA JACK(RED) MTJ-032-11A-31 FE01	JYRL010LY024
JK1204		S TYPE JACK MDC-050V-2.4	JXEL040LY001
JW103		FFC CABLE 8P FFC/P1.25/120	WX1E9700-002

SENSOR CBA

Ref. No.	Mark	Description	Part No.
		SENSOR CBA Consists of the following:	1VSA11699
TRANSISTORS			
Q503		PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
		PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q504		PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
		PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F

PSV CBA

Ref. No.	Mark	Description	Part No.
	A,B,C D	PSV CBA PSV CBA Consists of the following:	1VSA11670 1VSA11753
		POWER SUPPLY CBA (PSV-A) JUNCTION CBA (PSV-B) REAR JACK CBA (PSV-C)	----- ----- -----

POWER SUPPLY CBA

Ref. No.	Mark	Description	Part No.
		POWER SUPPLY CBA (PSV-A) Consists of the following:	-----
CAPACITORS			
C013		ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
		ELECTROLYTIC CAP. 10μF/50V M	CE1JMASTL100
C014		ELECTROLYTIC CAP. 470μF/16V M or	CE1CMASDL471
		ELECTROLYTIC CAP. 470μF/16V M	CE1CMASTL471
C015		ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
		ELECTROLYTIC CAP. 100μF/16V M	CE1CMASTL101
C017		ELECTROLYTIC CAP. 4700μF/6.3V SL or	CE0KMZADL472
		ELECTROLYTIC CAP. 4700μF/6.3V SM or	CE0KMZPDL472
		ELECTROLYTIC CAP. 4700μF/6.3V M	CE0KMZPTL472
C018		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C020		ELECTROLYTIC CAP. 22μF/50V M or	CE1JMASDL220
		ELECTROLYTIC CAP. 22μF/50V M	CE1JMASTL220
C022		ELECTROLYTIC CAP. 470μF/35V M or	CE1GMASDL471
		ELECTROLYTIC CAP. 470μF/35V M	CE1GMASTL471
C1001 		METALLIZED FILM CAP. 0.068μF/250V K or	CT2E683DC011
		METALLIZED FILM CAP. 0.068μF/250V K or	CT2E683DC014
		METALLIZED FILM CAP. 0.068μF/250V M	CT2E683MS037
C1004		ELECTROLYTIC CAP. 100μF/400V M	CA2H101S6016
C1005		CERAMIC CAP. SL K 56pF/1KV or	CCD3AKPSL560
		CERAMIC CAP. SL J 56pF/1KV	CCD3AJPSL560
C1006 		SAFTY CAP. 2200pF/250V or	CCN2EMA0E222
		SAFETY CAP. 2200pF/250V	CA2E222MR049
C1007		ELECTROLYTIC CAP. 1000μF/6.3V M or	CE0KMASDL102
		ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASTL102
C1013		CERAMIC CAP.(AX) B J 1000pF/50V	CCA1JJTOB102
C1018		ELECTROLYTIC CAP. 100μF/10V M or	CE1AMASDL101
		ELECTROLYTIC CAP. 100μF/10V M	CE1AMASTL101
C1021		CERAMIC CAP.(AX) Y M 0.01μF/16V	CCA1CMT0Y103
C1025		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103

Ref. No.	Mark	Description	Part No.
C1029		CERAMIC CAP.(AX) X K 1800pF/16V	CCA1CKT0X182
C1032		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1033		CERAMIC CAP. YV Z 0.022μF/50V	CCD1JZSYV223
C1035		ELECTROLYTIC CAP. 3300μF/6.3V SL or	CE0KMZADL332
		ELECTROLYTIC CAP. 3300μF/6.3V SM or	CE0KMZPDL332
		ELECTROLYTIC CAP. 3300μF/6.3V M	CE0KMZPTL332
C1036		CERAMIC CAP. B K 470pF/500V	CCD2JKP0B471
C1037		ELECTROLYTIC CAP. 1000μF/16V M or	CE1CMASDL102
		ELECTROLYTIC CAP. 1000μF/16V M	CE1CMASDL102
C1039		ELECTROLYTIC CAP. 470μF/16V M or	CE1CMASDL471
		ELECTROLYTIC CAP. 470μF/16V M	CE1CMASDL471
C1106		ELECTROLYTIC CAP. 100μF/35V M or	CE1GMASDL101
		ELECTROLYTIC CAP. 100μF/35V M	CE1GMASDL101
C2014		CERAMIC CAP. B K 0.01μF/500V	CCD2JKP0B103
DIODES			
D013		RECTIFIER DIODE BA158 or	NDQZ000BA158
		RECTIFIER DIODE BA158	NDWZ000BA158
D014		SCHOTTKY BARRIER DIODE SB190 or	NDQZ000SB190
		SCHOTTKY BARRIER DIODE SB190	NDWZ000SB190
D016		SCHOTTKY BARRIER DIODE SB340 or	NDQZ000SB340
		SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D017		ZENER DIODE DZ-15BSCT265 or	NDTC000DZ15BS
		ZENER DIODE MTZJT-7715C	QDTC000MTZJ15
D018		RECTIFIER DIODE BA158 or	NDQZ000BA158
		RECTIFIER DIODE BA158	NDWZ000BA158
D019		RECTIFIER DIODE FR203-B/P	NDQZ000FR203
D1001		DIODE 1N5397-B	NDLZ001N5397
D1002		DIODE 1N5397-B	NDLZ001N5397
D1003		DIODE 1N5397-B	NDLZ001N5397
D1004		DIODE 1N5397-B	NDLZ001N5397
D1006		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDZ001SS133
D1008		SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
		SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
D1011		RECTIFIER DIODE BA159 or	NDQZ000BA159
		RECTIFIER DIODE BA159	NDWZ000BA159
D1012		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDZ001SS133
D1016		RECTIFIER DIODE FR101	NDWZ000FR101
D1017		ZENER DIODE DZ-18BSBT265 or	NDTB000DZ18BS
		ZENER DIODE MTZJT-7718B	QDTB000MTZJ18
D1018		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDZ001SS133
D1019		ZENER DIODE DZ-6.8BSBT265 or	NDTB000DZ6.8BS
		ZENER DIODE MTZJT-776.8B	QDTB000MTZJ6.8B
D1022		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDZ001SS133
D1023		PCB JUMPER D0.6-P5.0	JW5.0T
D1024		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDZ001SS133
D1025		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDZ001SS133
D1030		SCHOTTKY BARRIER DIODE SB240-B/P	NDWZ000SB240
D1031		SCHOTTKY BARRIER DIODE SB390 or	NDQZ000SB390
		SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D1032		SCHOTTKY BARRIER DIODE SB340 or	NDQZ000SB340
		SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
ICs			
IC1001		PHOTOCOUPLER EL817A or	NPEA000EL817
		PHOTOCOUPLER EL817B or	NPEB000EL817
		PHOTOCOUPLER EL817C or	NPEC000EL817
		PHOTOCOUPLER LTV-817B-F or	NPEB000LTV817F
		PHOTOCOUPLER LTV-817C-F or	NPEC000LTV817F
		PHOTOCOUPLER PS2561A-1(Q) or	QPEQPS2561A1
		PHOTOCOUPLER PS2561A-1(W)	QPEWPS2561A1

Ref. No.	Mark	Description	Part No.
COILS			
L010		CHOKE COIL 47μH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47μH-K or	LLBD00PKV007
		CHOKE COIL 47μH-K or	LLBD00PKV005
		CHOKE COIL 47μH-K or	LLBD00PKT001
		FIXED INDUCTORS LGB0810T-470K	LLBD00PU6007
L013		CHOKE COIL 47μH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47μH-K or	LLBD00PKV007
		CHOKE COIL 47μH-K or	LLBD00PKV005
		CHOKE COIL 47μH-K or	LLBD00PKT001
		FIXED INDUCTORS LGB0810T-470K	LLBD00PU6007
L1001		BEAD CORE ASSEMBLY E9700ED	1VSA11692
L1002		BEAD CORE ASSEMBLY E9700ED	1VSA11692
L1003		LINE FILTER 56MH TLF14CB5630R2 or	LLBG00ZTU022
		LINE FILTER 50MH LF-4D-E503	LLBG00ZKQ009
L1004		BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L1005		BEAD CORE ASSEMBLY E9700ED	1VSA11692
L1011		CHOKE COIL 47μH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47μH-K or	LLBD00PKV007
		CHOKE COIL 47μH-K or	LLBD00PKV005
		CHOKE COIL 47μH-K or	LLBD00PKT001
		FIXED INDUCTORS LGB0810T-470K	LLBD00PU6007
L1013		POWER INDUCTORS TWKBNP-180K or	LLC180KKV007
		INDUCTOR(18UH) CWKB-180K or	LLC180KKV005
		CHOKE COIL(18UH) LHL10NB180K	LLARKGQTU180
TRANSISTORS			
Q1001		FET 2SK3566	QFWZ02SK3566
Q1003		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-Y(TPE2)	QQSY02SC1815
Q1004		TRANSISTOR KTA1267Y-AT/P or	NQSYKTA1267P
		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
		TRANSISTOR 2SA1175(H) or	QQSH02SA1175
		TRANSISTOR 2SA1175(F) or	QQSF02SA1175
		TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
		TRANSISTOR KTA1267(GR)	NQS10KTA1267
Q1008		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199	NQS40KTC3199
RESISTORS			
R057		CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R1002		CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R1003		CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R1004		METAL OXIDE FILM RES. 2W J 82k Ω or	RN02JZLZ0823
		METAL OXIDE FILM RES. 2W J 82k Ω or	RN02JZQZ0823
		METAL OXIDE FILM RES. 2W J 82k Ω	RN02JZPZ0823
R1005		CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1006		CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1007		CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1008		CARBON RES. 1/4W G 820 Ω	RCX4GATZ0821
R1010		CARBON RES. 1/6W J 22k Ω or	RCX6JATZ0223
		CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R1011		METAL OXIDE FILM RES. 1W J 1.3 Ω or	RN01JZLZ01R3
		METAL OXIDE FILM RES. 1W J 1.3 Ω or	RN01JZQZ01R3

Ref. No.	Mark	Description	Part No.
		METAL OXIDE FILM RES. 1W J 1.3 Ω	RN01JZPZ01R3
R1020		CARBON RES. 1/6W J 1.8k Ω or	RCX6JATZ0182
		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R1021		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1022		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1023		CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5H0222
		CHIP RES.(1608) 1/10W F 2.2k Ω	RRXAFR5Z0222
R1024		CHIP RES.(1608) 1/10W J 68k Ω	RRXAJR5Z0683
R1025		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5H0562
		CHIP RES. 1/10W F 5.6k Ω	RRXAFR5Z0562
R1029		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1032		CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R1035		CARBON RES. 1/6W J 1k Ω or	RCX6JATZ0102
		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1036		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1037		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1038		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1039		CARBON RES. 1/6W J 470k Ω or	RCX6JATZ0474
		CARBON RES. 1/4W J 470k Ω	RCX4JATZ0474
R1040		CARBON RES. 1/4W J 8.2 Ω	RCX4JATZ08R2
R1041		CARBON RES. 1/4W J 5.6 Ω	RCX4JATZ05R6
R1043		METAL OXIDE FILM RES. 1W J 2.7 Ω or	RN012R7ZU001
		METAL OXIDE FILM RES. 1W J 2.7 Ω or	RN012R7KE009
		METAL OXIDE FILM RES. 1W J 2.7 Ω	RN012R7DP003
R1059		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1126		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
MISCELLANEOUS			
AC1001 △	A,B,C	AC CORD PE8G2CG9G0AB05	WAE0172LW011
AC1001 △	D	AC CORD PE8G2X91H0AA061	WAB0182LW016
2B18		HEAT SINK E6800ED	1VM420987
F1001△		FUSE T1.6AL/250V or	PAGC20BW3162
△		FUSE 50T016H 1.6A/250V	PAGH20BH162
FH1001		FUSE HOLDER MSF-015 or	XH01Z00LY001
		FUSE HOLDER DFH-001	XH01Z00RP001
FH1002		FUSE HOLDER MSF-015 or	XH01Z00LY001
		FUSE HOLDER DFH-001	XH01Z00RP001
2L019		SCREW S-TIGHT M3X8 BIND HEAD+	GBMS3080
T0011△		SWITCHING TRANSFORMER 5727	LTT00EPTK189

JUNCTION CBA

Ref. No.	Mark	Description	Part No.
		JUNCTION CBA (PSV-B) Consists of the following:	-----
CONNECTORS			
CN051A		242 SERIES CONNECTOR TUC-P19X-B1 WHT ST or	JCTUB19TG002
		CONNECTOR 19P TUC-P19X-B1	JCTUS19TG001
MISCELLANEOUS			
JW1001		FLAT CABLE 10P AWG26#2651/P2.0/100	WX1E9700-003
JW1002		FLAT CABLE 9P AWG26#2651/P2.0/100	WX1E9700-004

REAR JACK CBA

Ref. No.	Mark	Description	Part No.
		REAR JACK CBA (PSV-C) Consists of the following:	-----
CAPACITORS			
C2003		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C2004		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C2005		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C2006		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222

Ref. No.	Mark	Description	Part No.
C2007		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C2008		CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JKB0B102
C2009		ELECTROLYTIC CAP. 10μF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C2010		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C2011		CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JKB0B102
C2012		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C2013		CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JKB0B102
DIODES			
D2001		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2002		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2003		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2004		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2005		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2006		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2007		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2008		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2009		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2010		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
COIL			
L2001		BEAD CORE ASSEMBLY E9700ED	1VSA11697
TRANSISTORS			
Q2002		TRANSISTOR KTC3199-Y/AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199	NQS40KTC3199
Q2003		TRANSISTOR KTC3199-Y/AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199	NQS40KTC3199
Q2004		CHIP TRANSISTOR KTA1504GR-RTK or	NQ140KTA1504
		CHIP TRANSISTOR KTA1504Y-RTK	NQ1Y0KTA1504
Q2005		CHIP TRANSISTOR KTA1504GR-RTK or	NQ140KTA1504
		CHIP TRANSISTOR KTA1504Y-RTK	NQ1Y0KTA1504
RESISTORS			
R2003		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R2004		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R2005		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R2006		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R2007		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R2008		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221

Ref. No.	Mark	Description	Part No.
R2009		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R2010		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R2011		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R2012		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R2013		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R2014		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2015		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
MISCELLANEOUS			
2B60		PLATE GROUND(21PIN) H9500ED	0VM415201A
JK2001		RGB CONNECTOR MRC-021V-03	JXGL210LY006
		ABS(B11 or	
		RGB CONNECTOR MRC-021V-03	JXGL210LY003
JW2001		FLAT CABLE 11P AWG26#2651/P2.0/85	WX1E9700-005
JW2002		FLAT CABLE 4P AWG26#2651/P2.0/85	WX1E9700-006

AFV CBA

Ref. No.	Mark	Description	Part No.
	A,B,C D	AFV CBA AFV CBA Consists of the following:	1VSA11730 1VSA11738
CAPACITORS			
C1		CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C4		CHIP CERAMIC CAP. CH J 56pF/50V or	CHD1JJ3CH560
		CHIP CERAMIC CAP. CG J 56pF/50V	CHD1JJ3CG560
C5		CHIP CERAMIC CAP.(1608) CH J 22pF/ 50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C6		CHIP CERAMIC CAP. CH J 56pF/50V or	CHD1JJ3CH560
		CHIP CERAMIC CAP. CG J 56pF/50V	CHD1JJ3CG560
C7		CHIP CERAMIC CAP. CH C 3pF/50V or	CHD1JC3CH3R0
		CHIP CERAMIC CAP. C J C 3pF/50V or	CHD1JC3CJ3R0
		CHIP CERAMIC CAP. CH D 3pF/50V	CHD1JD3CH3R0
C8		CHIP CERAMIC CAP. CH C 3pF/50V or	CHD1JC3CH3R0
		CHIP CERAMIC CAP. C J C 3pF/50V or	CHD1JC3CJ3R0
		CHIP CERAMIC CAP. CH D 3pF/50V	CHD1JD3CH3R0
C11		CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C12		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMASL100
C13		CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C14		CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V	CHD1JK30B103
C15		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMASL100
C16		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMASL100
C17		CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C19		CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C20		ELECTROLYTIC CAP. 3.3μF/50V M H7	CE1JMASSL3R3
C21		CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C22		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMASL100
C24		ELECTROLYTIC CAP. 0.22μF/50V M H7	CE1JMASSLR22
C27		CERAMIC CAP.(AX) F Z 0.1μF/50V	CCA1JZTFZ104
CONNECTOR			
CN1		ANGLE PIN HEADER 9P IMSA-6029B-1- 09Z003-	JTED009ER045
DIODES			
D2		SWITCHING DIODE 1N4148M or	NDT201N4148M

Ref. No.	Mark	Description	Part No.
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
ICS			
IC1	A,B,C	IC AUDIO PROCESSOR MSP3407G- QG-B8-V3	NSZBA0SP3004
IC1	D	IC AUDIO PROCESSOR MSP3417G- QG-B8-V3	NSZBA0SP3005
COILS			
L1		INDUCTOR 10μH-K-26T	LLAXKATTU100
L2		PCB JUMPER D0.6-P5.0	JW5.0T
L3		INDUCTOR 18μH-K-26T	LLAXKATTU180
L4		INDUCTOR 10μH-K-26T	LLAXKATTU100
RESISTORS			
R1		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R4		CHIP RES.(1608) 1/10W J 120k Ω	RRXAJR5Z0124
R5		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R6		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
MISCELLANEOUS			
X1		XTAL 18.432MHz	FXD186LLN001

